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P692.S

#### SEED LIST

A list of forage plant seeds and the incidental  
seeds commonly found with them.

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Many synonyms and secondary common names are  
included in the list. These unapproved names  
appear as underscored words. The approved common  
names are supplied through the courtesy of  
Dr. Frederick V. Coville, Division of Plant  
Exploration and Introduction.

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Division of Seed Investigations  
Bureau of Plant Industry  
United States Department of Agriculture  
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DISTINGUISHING CHARACTERS OF SEEDS OF *VICIA VILLOSA* AND *VICIA DASYCARPA*  
(See accompanying photograph of drawings of seeds).

By

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Seeds of *Vicia villosa* and *Vicia dasycarpa* are distinguishable chiefly by differences in size, form and conditions relating to the hilum. Normal seeds of both kinds may be black or somewhat mottled. The distance of the chalaza from the hilum is similar in the two kinds, ranging from one-third to the full length (rarely) of the hilum.

*Vicia villosa*:- Seeds normally about spherical, rolling readily on a level surface and coming to rest gradually; sometimes somewhat compressed, rolling less readily and coming to rest abruptly; averaging smaller than seeds of *V. dasycarpa*; occasional seeds brown, reddish or tawny often with light-colored hilum.

Hilum:- Normally black or brown-tinged, ovate or ovate-oblong, sometimes narrowly oblong, variable in size, some very small seeds having a very large hilum.

Surface of the hilum:- Usually flush with the general surface (a, b), sometimes slightly depressed below the general surface (e, f) at the edges (duplicated in some seeds of *V. dasycarpa*); sometimes elevated and convex between the edges (i), convex between the edges and slit (j), or depressed from the edges to the slit (k); the surface finely granular (viewed under high magnification) or more or less smoothed and somewhat lustrous; a longitudinal light stripe including the slit occasionally evident. Minute white particles (not dust) often are concentrated on the border.

Slit of the hilum:- Normally closed and very narrow due to the sharply angled adjacent edges of the halves of the surface (a and b, e and f), occasionally somewhat grooved (c, d) due to the edges being rounded (confusing with the similar prevailing condition in *V. dasycarpa*). Some seeds, particularly in old seed, display the slit as gaping thus exposing the white tissue of the interior (g, h). This condition does not appear to occur in *V. dasycarpa*.

*Vicia dasycarpa*:- Seeds averaging larger than those of *V. villosa*, most of them noticeably larger, the smaller seeds about the size of the larger seeds of *V. villosa* and often nearly spherical, the larger seeds being distinctly compressed. In general, the seeds of this species do not roll readily and come to rest abruptly. Some seeds are coarsely, but not sharply, mottled.

Hilum:- In general, relatively smaller, particularly narrower, than that of *V. villosa*, occasionally ovate, more commonly narrowly ovate, oblong or narrowly oblong, scarcely linear, variable in size, a light stripe along the slit usually evident, the sides primarily dark to black, or brown.

Surface of the hilum:- Usually depressed below the level of the surrounding surface (a-d), often conspicuously so (e) (viewed with the compound microscope), sometimes nearly as flush with the surface as in typical *V. villosa* (then conflicting with the latter); flat or convex between the lateral edges, very finely rugose, particularly between the light stripe and the edge (viewed under high magnification and in contrast to the finely granular surface in *V. villosa*).

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The surface is more or less sprinkled with minute white particles (often accumulated to form a narrow white border), or is generally finely scurfy (making the hilum lighter colored than in V. villosa).

Slit of the hilum:- Usually having a slight, sometimes a very evident, groove (a, b, e), this sometimes not evident (c, d) (the slit then appearing as in V. villosa).

Remarks:- Vetch seeds may be well held in position for examining the hilum by pressing them into sand of a depth about equal to the diameter of the seed. By arranging a considerable number of seeds with the scars exposed, most of the variation in conditions is observable, particularly if different lots are represented.

The use of a compound microscope (preferably the binocular type) is essential. Different magnifications from 30 to 85 are found useful. The high magnification is essential when examining the surface texture of the hilum.

When identifying seeds, conflicting conditions are sure to appear. Differences in several respects between the two kinds have been noted above. If any one or two appear to be in conflict, decide the identification on the basis of the remaining conditions. It is exceptional for more than one condition, or sometimes two conditions, to be conflicting. One or another of those mentioned above may be so evident as to be conclusive. The hand-lens will decide the question for many seeds. The compound microscope will be needed to decide an indistinct groove at the slit of the hilum, or an indistinct depression of the margin of the hilum. The granular texture of the hilum of V. villosa and the rugose texture of that of V. dasycarpa appearing under high magnification are very conclusive.

A small quantity of authentic seeds of the two kinds should be thoroughly studied prior to attempting to separate a mixture of the kinds.

Care should be taken not to mistake seeds of Vicia sativa and V. pannonica for those of V. dasycarpa. Both occur in imported seed of V. villosa.

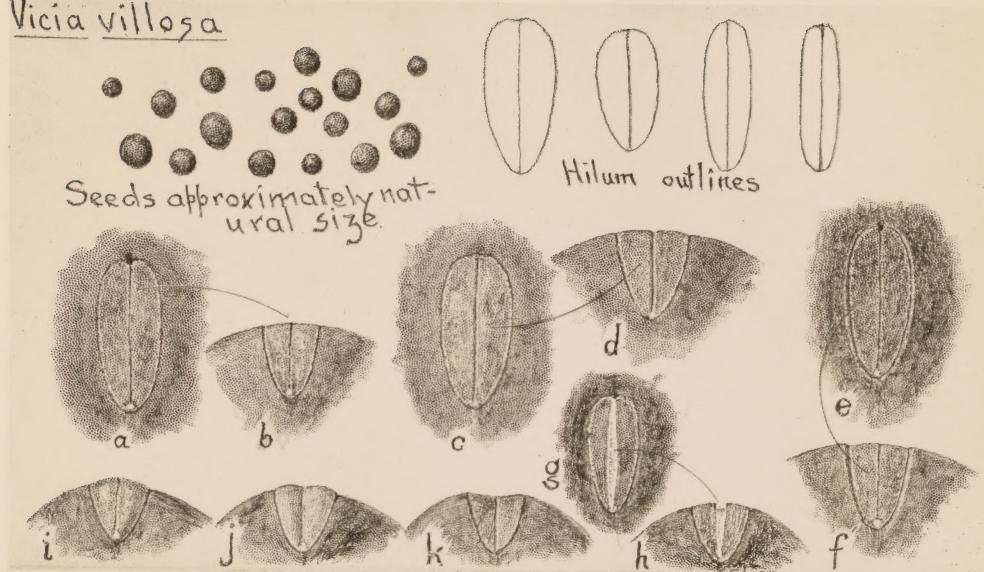
Seeds of V. sativa are, in general, more distinctly flattened; if mottled, more distinctly so; the hilum narrower and more wedge-shaped, often more distinctly depressed; the vascular particle at the narrow end of the hilum comparatively large and elevated (instead of a minute, indistinct particle as in both V. villosa and V. dasycarpa). The chalaza often is very close to the hilum.

Seeds of V. pannonica often are mottled, variously compressed; the hilum very similar to that of V. dasycarpa, but often diagonal to the longest diameter of the seed. A conclusive distinction is in the chalaza located opposite the hilum.

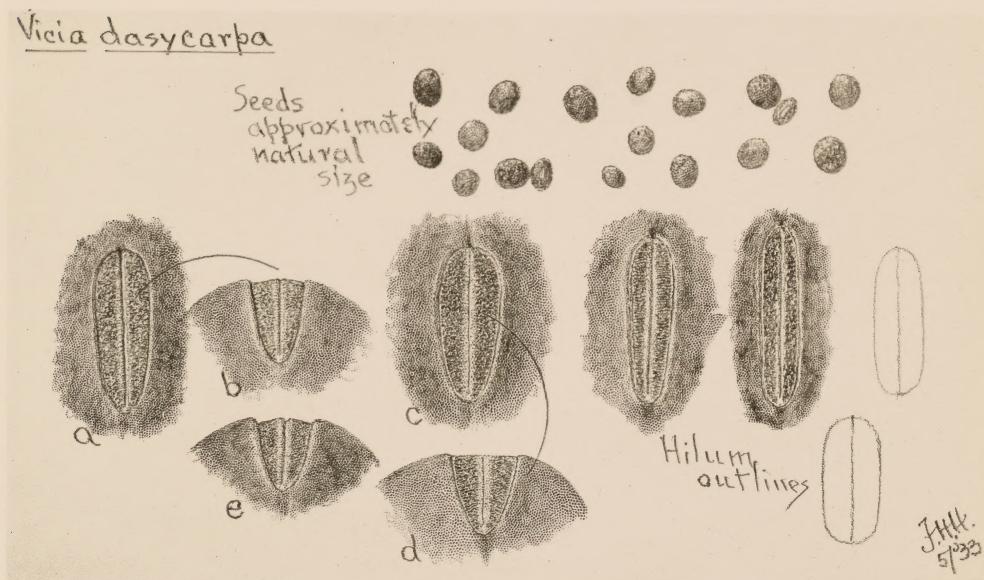
Neither of these kinds should be confounded with seeds of V. villosa.

The black seeds of Vicia angustifolia may be mistaken for those of V. villosa owing to their similar size and form. The hilum differs from that of V. villosa in being more wedge-shaped, the vascular particle more prominent, the surface arched slightly, its edges usually somewhat depressed and the chalaza usually nearer the hilum than in V. villosa.

Vicia villosa



Vicia dasycarpa



DISTINGUISHING CHARACTERS OF SEEDS  
OF  
VICIA VILLOSA AND VICIA DASYCARPA

UNITED STATES DEPARTMENT OF AGRICULTURE  
Bureau of Plant Industry

DISTINGUISHING CHARACTERS OF SEED OF CERTAIN CULTIVATED LESPEDEZAS  
(See accompanying photograph of drawings of seeds)

By F. H. Hillman  
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The kinds of Lespedezas under consideration are the common lespedeza, Lespedeza striata, often referred to in the past as Japan clover, the Kobe variety of L. striata, the Korean lespedeza, L. stipulacea, and Lespedeza sericea. These kinds are receiving special consideration by the Division of Forage Crops and Diseases of this Department.

Commercial seed of these Lespedezas consists chiefly of seed enclosed in the pods. Owing to conditions of preparation, often some of the pods are broken open resulting in a variable proportion of free seed in the commercial product, the broken pods being removed in the process of cleaning the seed.

In general, the single-seeded pods are compressed, lenticular, somewhat unsymmetrically oval or elliptical as viewed from the side, more or less appressed-hairy and have a more or less evident network of slender, slightly elevated and somewhat colored lines.

Normally in commercial seed, the pods are surrounded by the persistent calyx at the base of which are attached three scale-like bracts. A part of commercial seed consists of pods partially or wholly freed of the calyces.

Characters useful in distinguishing the seed of the several kinds appear in the size, form and color of the pods, calyces, bracts and hulled seeds. The pubescence, reticulation and glandular-dotting of the pods are useful in this respect.

Common lespedeza, L. striata, and Kobe lespedeza, L. striata, show much similarity in the pods, calyces, bracts and seeds. Selections of seed of each can be made that practically would defy identification one from the other. On the other hand, small bulk portions of these kinds appear to be distinguishable.

Referring to both kinds, the pods are, in general, obovate, tapering abruptly to a pointed beak at the apex; the surface light brown; the reticulations usually distinct, slightly raised above the surface and tinged with darker brown, the surface of the pod and calyx more or less hairy; the glandular dots numerous and mostly distinct; the calyx  $1/2$  to  $3/4$  the length of the pod, somewhat bell-shaped, the 5 lobes about half the length of the calyx, similar except that two are united for about half their length, all lobes ciliate-margined, a dark spot usually evident at each sinus; the bracts equalling or exceeding the tube of the calyx; seeds ovate-elliptical, somewhat compressed, the hilum on the edge midway between the center and end, variously light brown-mottled on a purplish background, occasional seeds uniformly purplish-brown, the surface smooth and lustrous; immature seeds more distinctly compressed, brown, devoid of purple and dull.

Of samples observed, pods and calyces of common L. striata average smaller and darker colored than those of the Kobe L. striata. The seeds also are smaller than those of the latter. Pubescence is more pronounced in the Kobe L. striata, the calyx often being densely hairy, the bracts bearing some hairs while these are nearly wanting in common L. striata. The bracts of Kobe L. striata are mostly broader and more numerously veined than in common L. striata.

Pods of Korean lespedeza, L. stipulacea, are grayish brown in general color which is distinctive of this kind with respect to the others considered here. The prevailing form of individual pods is obovate, a slightly quadrangular form often suggested, the short-beaked apex often turned to one side; reticulation distinct, the ridges noticeably dark colored and somewhat lustrous, the surface distinctly and numerously glandular-dotted, sparingly hairy or the hairs more numerous toward the apex; calyx  $1/3$  to  $1/2$  the length of the pod, thin and frail, straw-colored or light brown, often torn or absent from pods in commercial seed, the ovate lobes equal to or exceeding the tube, their margins ciliate, the two united lobes joined nearly to the apex which thus is slightly notched, a dark spot at each of the 4 sinuses; bracts mostly longer than the calyx tube, few-veined; both calyx and bracts devoid of hairs; seeds elliptical or somewhat oblong, very dark purple, not mottled, but slightly compressed, the hilum within a light colored area near one end of the seed, the surface lustrous.

The pods of commercial seed of Lespedeza sericea mostly are devoid of the calyx, reddish-brown and dull, the sides of the pod sparingly hairy or more numerously hairy toward the apex, the edges densely white-hairy; the reticulation indistinctly evident, having essentially the color of the surface of the pod which is not glandular-dotted. The pods display two distinguishable forms; one, elliptical, tapering to a short or attenuate, straight or curved beak; the other more obovate-elliptical terminating in a short recurved beak. Calyx  $1/2$  to  $3/4$  the length of the pod, cleft nearly to the base, densely white-hairy, the lobes awl-shaped, the united lobes joined for  $1/2$  to  $2/3$  their length; bracts minute, linear, hairy, indistinct; seeds somewhat compressed, essentially elliptical or narrowly ovate (from the longer more elliptical pods), or shorter and ovate (from the more obovate pods having the short recurved beak). The seeds are green-tinged, light olive or light brown, sparingly speckled, or having small patches or stripes of light purple; the surface smooth and slightly lustrous or dull.

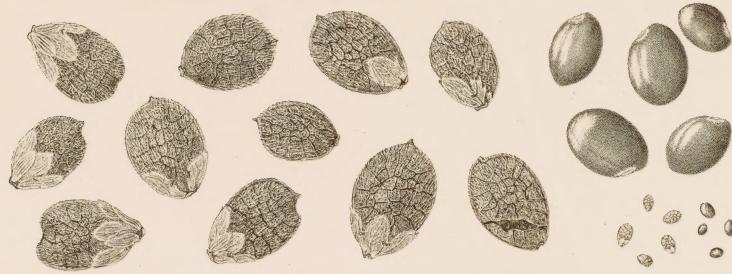
December 1, 1934.



Lespedeza striata, Common



Lespedeza striata, Kobe



Lespedeza stipulacea, Korean



Lespedeza sericea

DISTINGUISHING CHARACTERS OF SEED OF CERTAIN CULTIVATED LESPEDEZAS

<i>Arctium</i> sp.	Burdock
<i>Arctium lappa</i>	Big burdock
<i>Arenaria</i> sp.	Sandwort
<i>Arenaria serpyllifolia</i>	Thymeleaf sandwort
<i>Argemone</i> sp.	Pricklepoppy
<i>Argemone alba</i>	White pricklepoppy
<i>Argemone hispida</i>	Hedgehog pricklepoppy
<i>Aristida</i> sp.	Three-awn
<i>Aristida dichotoma</i>	Poverty three-awn
<i>Aristida stricta</i>	Pineland three-awn
<i>Arnoseris minima</i>	Lamb-succory
<i>Arrhenatherum elatius</i>	Tall oatgrass
<i>Artemisia</i> sp.	Wormwood
<i>Artemisia annua</i>	Sweet wormwood
<i>Artemisia biennis</i>	Biennial wormwood
<i>Asphodelus tenuifolius</i>	No common name
<i>Aster ericoides</i>	Heath aster
<i>Aster frondosus</i>	No common name
<i>Aster oblongifolius</i>	Aromatic aster
<i>Astragalus</i> sp.	Astragalus
<i>Astragalus sinicus</i>	Genge
<i>Atriplex</i> sp.	Saltbush
<i>Atriplex hastata</i>	Fat-hen; <u>saltbush</u>
<i>Atriplex hortensis</i>	Garden orach
<i>Atriplex rosea</i>	Redscale; <u>red orach</u>
<i>Atriplex semibaccata</i>	Australian saltbush
<i>Atriplex truncata</i>	Wedgescale orach; <u>saltbush</u>
<i>Avena fatua</i>	Wild oat
<i>Avena flavescens</i> <i>Trisetum flavescens</i>	Yellow trisetum; <u>yellow oatgrass</u>
<i>Avena nuda</i>	Naked oat
<i>Avena pubescens</i>	Perennial oat; <u>downy oatgrass</u>
<i>Avena sativa</i>	Oat

<u>Axonopus compressus</u>	Carpet grass
<u>Paspalum compressum</u>	
<u>Axyris amaranthoides</u>	Russian-pigweed
<u>Barbarea barbarea</u>	Bitter wintercress
<u>Barbarea vulgaris</u>	
<u>Campe barbarea</u>	
<u>Barbarea verna</u>	Early wintercress
<u>Barbarea praecox</u>	
<u>Campe verna</u>	
Bassia sp.	Bassia
<u>Bassia hyssopifolia</u>	Fivehook bassia
<u>Kochia hyssopifolia</u>	
Beckmannia sp.	Sloughgrass
Beckmannia syzigachne	American sloughgrass
Bellis perennis	English daisy
Berteroia incana	Hoary alyssum
Bidens bipinnata	Spanish-needles
Bidens cernua	Nodding sticktight; <u>smaller bur-marigold</u>
Bidens frondosa	Sticktight; <u>beggar-ticks</u>
<u>Bignonia radicans</u>	Trumpet creeper
<u>Tecoma radicans</u>	
<u>Boebera papposa</u>	Prairie-dog-weed; <u>false dog-fennel</u>
Dyssodia papposa	
Boerhaavia erecta	Spiderling
Boisduvalia densiflora	No common name
Boisduvalia stricta	No common name
Brassica sp.	Mustard
Brassica adpressa	No common name
<u>Brassica alba</u>	White mustard
<u>Sinapis alba</u>	
<u>Brassica arvensis</u>	Charlock
<u>Sinapis arvensis</u>	
Brassica campestris	Bird rape; <u>wild kale</u> ; <u>wild turnip</u> ; <u>common yellow mustard</u>
Brassica juncea	India mustard; <u>brown mustard</u>
Brassica napus	Winter rape
Brassica napus var.	Oilseed rape; <u>annual oilseed rape</u>
Brassica nigra	Black mustard; <u>trieste brown mustard</u>
Brassica oleracea var.	Cabbage, cauliflower, broccoli, brussels sprouts, kale, collards
Brassica rapa var.	Turnip rape; <u>biennial turnip rape</u>

<i>Briza media</i>	Perennial quaking-grass; <u>quake grass</u>
<i>Briza minor</i>	Little quaking-grass
<i>Bromus sp.</i>	Bromegrass
<i>Bromus arvensis</i>	Field brome; <u>field chess</u>
<i>Bromus brizaeformis</i>	Rattlesnake chess
<i>Bromus carinatus</i> <u><i>Bromus marginatus</i></u>	California brome
<i>Bromus catharticus</i> <u><i>Bromus unicloides</i></u>	Rescue grass
<i>Bromus commutatus</i> <u><i>Bromus pratensis</i></u>	Hairy chess
<i>Bromus hordeaceus</i> <u><i>Bromus mollis</i></u>	Soft chess
<i>Bromus inermis</i>	Smooth brome; <u>awnless brome grass</u>
<i>Bromus racemosus</i>	Smooth chess; <u>bald chess</u>
<i>Bromus rigidus</i> <u><i>Bromus maximus</i></u>	Ripgut grass
<i>Bromus secalinus</i>	Chess; <u>cheat</u>
<i>Bromus sterilis</i>	Barren chess; <u>poverty chess</u>
<i>Bromus tectorum</i>	Downy chess; <u>slender chess</u>
<i>Bromus unicloides</i> <u><i>Bromus catharticus</i></u>	Rescue grass
<i>Buchloe dactyloides</i> <u><i>Bulbilis dactyloides</i></u>	Buffalo grass
<i>Bursa bursa-pastoris</i> <u><i>Capsella bursa-pastoris</i></u>	Shepherds-purse
<i>Calamagrostis sp.</i>	Reedgrass
<i>Camelina sp.</i>	False-flax
<i>Camelina dentata</i>	Flatseed false-flax
<i>Camelina microcarpa</i>	Littleseed false-flax
<i>Camelina sativa</i>	Bigseed false-flax
<i>Campe sp.</i>	Wintercress
<i>Campe barbarea</i> <u><i>Barbarea barbarea</i></u> <u><i>Barbarea vulgaris</i></u>	Bitter wintercress
<i>Campe verna</i> <u><i>Barbarea verna</i></u> <u><i>Barbarea praecox</i></u>	Early wintercress
<i>Cannabis sativa</i>	Hemp
<i>Capriola dactylon</i> <u><i>Cynodon dactylon</i></u>	Bermuda grass

<u>Capsella bursa-pastoris</u>	Shepherds-purse
<u>Bursa bursa-pastoris</u>	
Carduus sp.	Thistle
<u>Carduus arvensis</u>	Canada thistle
<u>Cirsium arvense</u>	
Carduus crispus	Curly thistle
<u>Carduus discolor</u>	Field thistle
<u>Cirsium discolor</u>	
<u>Carduus lanceolatus</u>	Bull thistle
<u>Cirsium lanceolatum</u>	
<u>Carduus undulatus</u>	Plains thistle
<u>Cirsium undulatum</u>	
Carex sp.	Sedge
Carex frankii	No common name
Carthamus tinctorius	Safflower
Carum oreganum	Eppaw
Cassia sp.	No common name
Cassia marilandica	Wild senna
Cassia nictitans	Sensitive-pea
<u>Cathartolinum virginianum</u>	Woodland flax; <u>wild yellow flax</u>
<u>Linum virginianum</u>	
<u>Caucalis nodosa</u>	Hedgeparsley; <u>knotted hedge-parsley</u>
<u>Torilis nodosa</u>	
Cenchrus sp.	Sandbur
Cenchrus pauciflorus	Field sandbur
Cenchrus tribuloides	Dune sandbur
Centaurea sp.	Star-thistle
Centaurea americana	Basketflower
Centaurea calcitrapa	Star-thistle
Centaurea cyanus	Cornflower
Centaurea jacea	Brownscale knapweed
Centaurea melitensis	Malta star-thistle
Centaurea picris	Russian knapweed
Centaurea solstitialis	Yellow star-thistle; <u>Barnaby's knapweed thistle</u>
Cephalaria transylvanica	No common name
Cerastium sp.	Cerastium

<i>Cerastium viscosum</i>	Sticky mouse-ear
<i>Cerastium vulgatum</i>	Big mouse-ear; <u>mouse-ear chickweed</u>
<u><i>Chaetochloa italicica</i></u> <i>Setaria italicica</i>	Foxtail millet: German; Hungarian; golden ( <u>common</u> ); and others
<u><i>Chaetochloa lutescens</i></u> <i>Setaria lutescens</i>	Yellow bristlegrass; <u>yellow foxtail</u>
<u><i>Chaetochloa viridis</i></u> <i>Setaria viridis</i>	Green bristlegrass; <u>green foxtail</u>
<u><i>Chaetochloa verticillata</i></u> <i>Setaria verticillata</i>	Bur bristlegrass
<i>Chaerophyllum procumbens</i>	No common name
<u><i>Chamaesyce preslii</i></u> <i>Euphorbia preslii</i> <u><i>Euphorbia nutans</i></u>	Nodding spurge
<u><i>Chamaesyce maculata</i></u> <i>Euphorbia maculata</i>	Spotted spurge
<i>Cheirinia sp.</i>	Blistercress
<u><i>Cheirinia aspera</i></u> <u><i>Erysimum asperum</i></u>	Rough blistercress; <u>orange mustard</u>
<u><i>Cheirinia cheiranthoides</i></u> <u><i>Erysimum cheiranthoides</i></u>	Treacle-mustard; <u>wormseed mustard</u>
<i>Chenopodium sp.</i>	Goosefoot
<i>Chenopodium album</i>	Lambsquarters
<u><i>Chenopodium ambrosioides</i></u> <u><i>Chenopodium anthelminticum</i></u>	Mexican-tea; <u>wormseed</u>
<i>Chenopodium berlandieri</i>	Pitseed goosefoot
<i>Chenopodium hircinum</i>	No common name
<i>Chenopodium leptophyllum</i>	Narrowleaf goosefoot
<i>Chenopodium murale</i>	Nettleleaf goosefoot
<i>Chloris sp.</i>	Fingergrass
<i>Chloris divaricata</i>	Australian fingergrass
<i>Chloris gayana</i>	Rhodes grass
<i>Chloris virgata</i>	Feather fingergrass
<i>Chondrilla juncea</i>	Skeletonweed
<i>Chrysanthemum leucanthemum</i>	Oxeye daisy
<i>Chrysanthemum segetum</i>	Corn-marigold
<i>Cichorium intybus</i>	Chicory

Cicuta sp.	Waterhemlock
Cicuta maculata	Spotted waterhemlock
Cirsium sp.	Thistle
Cirsium arvense <u>Carduus arvensis</u>	Canada thistle
Cirsium discolor <u>Carduus discolor</u>	Field thistle
Cirsium lanceolatum <u>Carduus lanceolatus</u>	Bull thistle
Cirsium undulatum <u>Carduus undulatus</u>	Plains thistle
Claytonia perfoliata	Minerslettuce
Cleome serrulata	Bee-flower; <u>pink cleome</u>
Clinopodium acinos <u>Satureja acinos</u>	Basil-thyme
Clinopodium vulgare	Wildbasil
Cnicus benedictus	Blessed thistle
Collinsia sp.	No common name
Collomia grandiflora	No common name
Comptonia peregrina <u>Comptonia asplenifolia</u> <u>Myrica asplenifolia</u>	Sweetfern
Conium maculatum	Poisonhemlock
Conringia orientalis	Hares-ear-mustard
Convolvulus sp.	Bindweed
Convolvulus arvensis	Bindweed; <u>field bindweed</u> ; <u>creeping jenny</u>
Convolvulus sepium	Hedge bindweed
Coreopsis tinctoria	Calliopsis
Coriandrum sativum	Coriander
Corispermum hyssopifolium	Tickseed; <u>bug-seed</u>
Coronilla varia	Crownvetch
Corynephorus canescens <u>Weingartneria canescens</u>	Club-awn
Crepis sp.	Hawksbeard
Crepis capillaris <u>Crepis virens</u>	Smooth hawksbeard
Crepis setosa	No common name
Crepis tectorum	Narrowleaf hawksbeard
Crotalaria sp.	Crotalaria

<i>Crotalaria juncea</i>	Sunn-hemp
<i>Croton</i> sp.	Crotonweed
<i>Cuphea petiolata</i>	Clammy cuphea
<u><i>Parsonia petiolata</i></u>	
<i>Cuscuta</i> sp.	Dodder
<u><i>Cuscuta arvensis</i></u>	Field dodder
<i>Cuscuta pentagona</i>	
<i>Cuscuta epilinum</i>	Flax dodder
<i>Cuscuta epithymum</i>	Clover dodder
<i>Cuscuta indecora</i>	Bigseed dodder; <u>large-seeded alfalfa dodder</u>
<i>Cuscuta pentagona</i>	Field dodder
<u><i>Cuscuta arvensis</i></u>	
<i>Cuscuta planiflora</i>	Littleseed dodder; <u>small-seeded alfalfa dodder</u>
<i>Cuscuta racemosa chiliana</i>	Chilean dodder
<i>Cycloloma atriplicifolium</i>	Ringwing; <u>winged pigweed</u>
<u><i>Cymbia occidentalis</i></u>	No common name
<i>Krigia occidentalis</i>	
<i>Cynodon dactylon</i>	Bermuda grass
<u><i>Capriola dactylon</i></u>	
<i>Cynoglossum virginicum</i>	Blue houndstongue; <u>wild comfrey</u>
<i>Cynosurus</i> sp.	Dogtail
<i>Cynosurus cristatus</i>	Crested dogtail
<i>Cynosurus echinatus</i>	No common name
<i>Cyperus</i> sp.	Flat-sedge
<i>Cyperus esculentus</i>	Chufa
<i>Cyperus melanostachys</i>	No common name
<i>Cyperus rotundus</i>	Nutgrass; <u>coco</u>
<i>Dactylis glomerata</i>	Orchard grass; <u>cocksfoot grass</u>
<i>Danthonia</i> sp.	Oatgrass
<i>Danthonia californica</i>	California oatgrass
<i>Danthonia nuda</i>	No common name
<i>Danthonia semiannularis</i>	Wallaby grass
<i>Danthonia spicata</i>	Poverty oatgrass; <u>common wild oatgrass</u>
<i>Datura stramonium</i>	Jimsonweed
<u><i>Datura tatula</i></u>	
<i>Daucus carota</i>	Wild carrot

<i>Delphinium consolida</i>	Field larkspur
<i>Deschampsia</i> sp.	Hairgrass
<i>Deschampsia caespitosa</i> <u><i>Aira caespitosa</i></u>	Tufted hairgrass
<i>Deschampsia flexuosa</i> <u><i>Aira flexuosa</i></u>	Crinkled hairgrass; <u>eastern hairgrass</u>
<i>Desmodium tortuosum</i> <u><i>Meibomia tortuosa</i></u> <u><i>Meibomia purpurea</i></u>	Florida beggarweed; <u>beggarweed</u> ; <u>Cherokee clover</u>
<i>Dianthus armeria</i>	Deptford pink
<i>Digitalis purpurea</i>	Common foxglove
<i>Digitaria</i> sp.	Crabgrass
<i>Digitaria exilis</i> <u><i>Syntherisma exile</i></u>	Fundi grass
<i>Digitaria filiformis</i> <u><i>Syntherisma filiformis</i></u>	Slender crabgrass
<i>Digitaria ischaemum</i> <u><i>Syntherisma ischaemum</i></u>	Smooth crabgrass; <u>small crabgrass</u>
<i>Digitaria orbata</i>	No common name
<i>Digitaria sanguinalis</i> <u><i>Syntherisma sanguinalis</i></u>	Crabgrass
<i>Diodia teres</i>	Rough buttonweed
<i>Dipsacus sylvestris</i>	Wild teasel
<i>Distichlis</i> sp.	Saltgrass
<i>Distichlis spicata</i>	Seashore saltgrass; <u>marsh spikegrass</u>
<i>Distichlis stricta</i>	Desert saltgrass
<i>Dondia</i> sp. <u><i>Suaeda</i></u> sp.	Seepweed; <u>sea blite</u>
<i>Downingia</i> sp.	No common name
<i>Dracocephalum</i> sp. <u><i>Moldavica</i></u> sp.	Dragonhead
<u><i>Dracocephalum parviflorum</i></u> <u><i>Moldavica parviflora</i></u>	American dragonhead
<u><i>Dracopis amplexicaulis</i></u> <u><i>Rudbeckia amplexicaulis</i></u>	Clasping coneflower
<u><i>Dyssodia papposa</i></u> <u><i>Boebera papposa</i></u>	Prairie-dog-weed
<u><i>Echinochloa colonum</i></u> <u><i>Panicum colonum</i></u>	Jungle-rice
<i>Echinochloa crusgalli</i>	Barnyard grass

<i>Echinochloa crusgalli</i> frumentacea	Japanese millet
<u><i>Echinochloa frumentacea</i></u>	
<i>Echium vulgare</i>	Blueweed
<i>Eleocharis</i> sp.	Spikerush
<i>Eleocharis obtusa</i>	Blunt spikerush
<i>Eleocharis tenuis</i>	Slender spikerush
<i>Eleusine coracana</i>	Ragi; <u>African millet</u>
<i>Eleusine indica</i>	Goosegrass; <u>wiregrass</u> ; <u>yardgrass</u>
<i>Elymus</i> sp.	Wild-rye
<i>Epilobium</i> sp.	Willow-weed
<i>Epilobium adenocaulon</i>	Sticky willow-weed
<i>Epilobium paniculatum</i>	Panicle willow-weed
<i>Eragrostis</i> sp.	Lovegrass
<i>Eragrostis abyssinica</i>	Teff
<i>Eragrostis cilianensis</i>	Stinkgrass; <u>strong-scented lovegrass</u>
<u><i>Eragrostis major</i></u>	
<i>Eragrostis poaeoides</i>	Little lovegrass
<u><i>Eragrostis eragrostis</i></u>	
<u><i>Eragrostis minor</i></u>	
<i>Erechtites hieracifolia</i>	Burnweed; <u>fire weed</u>
<i>Erechtites prenanthoides</i>	Australian burnweed
<i>Eremochloa ophiuroydes</i>	Centipede grass
<i>Erigeron</i> sp.	Fleabane
<i>Erigeron annuus</i>	Whitetop fleabane
<i>Erigeron canadensis</i>	Horseweed; <u>Canada fleabane</u>
<u><i>Leptilon canadense</i></u>	
<i>Erigeron strigosus</i>	Daisy fleabane
<u><i>Erigeron ramosus</i></u>	
<i>Eriochloa</i> sp.	Cupgrass
<i>Eriochloa punctata</i>	Everlasting grass
<i>Erodium cicutarium</i>	Alfileria
<i>Eruca sativa</i>	Salad-rocket; <u>rocquette</u>
<i>Erucastrum gallicum</i>	Rocket-weed; <u>Pollicks mustard</u>
<u><i>Erucastrum pollichii</i></u>	
<u><i>Ervum lens</i></u>	Lentil
<u><i>Lens esculenta</i></u>	
<i>Lentilla lens</i>	

<u>Erysimum asperum</u> <u>Cheirinia aspera</u>	Rough blisterscress; <u>orange mustard</u>
<u>Erysimum cheiranthoides</u> <u>Cheirinia cheiranthoides</u>	Treacle-mustard; <u>wormseed mustard</u>
<u>Erysimum officinale</u> <u>Sisymbrium officinale</u>	Hedgemustard
<u>Eschscholtzia californica</u>	California-poppy
Euphorbia sp.	Spurge
Euphorbia cyparissias	Cypress spurge
Euphorbia esula	Leafy spurge
Euphorbia falcata	Sickle spurge
Euphorbia maculata <u>Chamaesyce maculata</u>	Spotted spurge
Euphorbia preslii <u>Euphorbia nutans</u> <u>Chamaesyce preslii</u>	Nodding spurge
Euphrasia sp.	Eyebright
<u>Fagopyrum vulgare</u> <u>Fagopyrum fagopyrum</u> <u>Fagopyrum esculentum</u>	Common buckwheat
Festuca sp.	Fescue
<u>Festuca capillata</u> <u>Festuca tenuifolia</u>	Hair fescue
Festuca ovina duriuscula	Hard fescue
<u>Festuca elatior</u> <u>Festuca elatior pratensis</u>	Meadow fescue
<u>Festuca elatior arundinacea</u> <u>Festuca arundinacea</u>	Reed fescue
Festuca rubra heterophylla	Shade fescue
Festuca myuros	Rattail fescue
Festuca octoflora	Sixweeks fescue; <u>slender fescue</u>
Festuca ovina	Sheep fescue
Festuca rubra	Red fescue
<u>Festuca rubra commutata</u> <u>Festuca rubra fallax</u>	Chewings fescue
<u>Festuca tenuifolia</u> <u>Festuca capillata</u>	Hair fescue
Fimbristylis autumnalis	No common name
<u>Fimbristylis diphylla</u> <u>Fimbristylis laxa</u>	No common name
<u>Franseria discolor</u> <u>Gaertneria discolor</u>	Skeletonleaf bur-sage; <u>white-leaved gaertneria</u>

Galega sp.	Goatsrue
Galega officinalis	Common goatsrue
Galeopsis sp.	Hempnettle
Galeopsis ladanum	Red hempnettle
Galeopsis tetrahit	Hempnettle
Galinsoga parviflora	Quickweed
Galium sp.	Bedstraw
Galium aparine	Catchweed; <u>cleavers</u>
Gastridium lendigerum	Nitgrass
Geranium sp.	Cranesbill
Geranium carolinianum	Carolina cranesbill
Geranium columbinum	Longstalk cranesbill
Geranium dissectum	Cutleaf cranesbill
Geranium molle	Dovefoot cranesbill
Geranium pusillum	Small cranesbill
Geum sp.	Avens
Geum canadense	White avens
<u>Geum album</u>	
Gilia sp.	Gilia
Gilia capitata	Globe gilia
Glauicum corniculatum	Sea-poppy
Glyceria sp.	Mannagrass
Glyceria fluitans	Mannagrass
<u>Panicularia fluitans</u>	
Glyceria grandis	American mannagrass; <u>tall mannagrass</u>
<u>Panicularia americana</u>	
Glyceria striata	Fowl mannagrass
<u>Panicularia nervata</u>	
<u>Glycine hispida</u>	Soybean
Soja max	
Glycyrrhiza lepidota	Wild licorice
Godetia sp.	Godetia
Gnaphalium sp.	Cudweed
Gnaphalium purpureum	No common name
Gnaphalium uliginosum	Mouse-ear cudweed; <u>low cudweed</u>
Grindelia sp.	Gumweed
Grindelia squarrosa	Curlycup gumweed

<i>Guizotia abyssinica</i>	Nigerseed
<i>Hedeoma</i> sp.	False-pennyroyal
<i>Hedeoma hispida</i>	Rough pennyroyal
<i>Hedeoma pulegioides</i>	American pennyroyal
<i>Hedysarum coronarium</i>	Sulla
<i>Helenium</i> sp.	Sneezeweed
<i>Helenium autumnale</i>	Common sneezeweed
<i>Helenium nudiflorum</i>	Purplehead sneezeweed
<i>Helenium tenuifolium</i>	Bitterweed
<i>Helianthus</i> sp.	Sunflower
<i>Helianthus annuus</i>	Common sunflower
<i>Helianthus grosseserratus</i>	Sawtooth sunflower
<i>Heliotropium</i> sp.	Heliotrope
<i>Heliotropium curassavicum</i>	Salt heliotrope
<i>Hibiscus trionum</i>	Flower-of-an-hour; <u>bladder ketmia</u>
<i>Hieracium</i> sp.	Hawkweed
<i>Hieracium aurantiacum</i>	Orange hawkweed
<i>Hieracium florentinum</i>	King-devil
<u><i>Holcus halepensis</i></u> <i>Sorghum halepense</i>	Johnson grass
<u><i>Holcus lanatus</i></u> <u><i>Notholcus lanatus</i></u>	Velvet grass
<u><i>Holcus mollis</i></u> <u><i>Notholcus mollis</i></u>	Softgrass; <u>meadow softgrass</u> ; <u>German mesquite grass</u>
<u><i>Holcus sorghum</i></u> <i>Sorghum vulgare</i>	Sorghum
<u><i>Holcus sorghum sudanensis</i></u> <u><i>Andropogon sorghum sudanensis</i></u> <i>Sorghum vulgare sudanensis</i>	Sudan grass
<i>Hookera</i> sp.	Brody
<u><i>Brodiaea</i> sp.</u>	
<i>Hordeum</i> sp.	Barley (weed)
<i>Hordeum jubatum</i>	Foxtail barley
<i>Hordeum murinum</i>	Mouse barley; <u>wild barley</u> ; <u>wall barley</u>
<i>Hordeum pusillum</i>	Little barley; <u>wild barley</u>
<i>Hordeum vulgare</i>	Barley

<u>Hosackia americana</u> Lotus americanus	Deervetch; <u>prairie birdsfoot trefoil</u>
Houstonia caerulea	Bluets
Houstonia purpurea	Field houstonia
Hyoscyamus niger	Henbane; <u>black henbane</u>
Hymenophyllum pubescens	Ballcress
<u>Hypericum gentianoides</u> <u>Sarothra gentianoides</u>	Pineweed; <u>orange-grass</u>
Hypericum perforatum	St. Johnswort; <u>klamath-weed</u>
Hypochaeris radicata	Spotted cats-ear
Ipomoea sp.	Morning-glory
Ipomoea hederacea	Ivyleaf morning-glory
Ipomoea pandurata	Bigroot morning-glory; <u>wild potato</u>
Ipomoea purpurea	Morning-glory
Iva axillaris	Sumpweed; <u>poverty weed</u>
Iva ciliata	Rough sumpweed; <u>marsh elder</u>
Iva xanthifolia	Bigleaf sumpweed; <u>marsh elder</u>
Juncoides sp.	Woodrush
Juncoides campestre	Field woodrush
Juncoides nemorosum	Forest woodrush; <u>wood meadow rush</u>
Juncus sp.	Rush
Juncus balticus	Wiregrass rush
Juncus bufonius	Toad rush
Juncus tenuis	Path rush
<u>Kickxia spuria</u> <u>Linaria spuria</u>	Roundleaf toadflax
<u>Knautia arvensis</u> Scabiosa arvensis	Field scabiosa
Kochia sp.	Molly
Kochia scoparia	Belvedere
Kochia trichophylla	Summer-cypress
<u>Kochia hyssopifolia</u> Bassia hyssopifolia	Fivehook bassia
Koellia sp. <u>Pycnanthemum</u> sp.	Mountain-mint
Koellia flexuosa <u>Pycnanthemum</u> <u>flexuosum</u>	Slender mountain-mint

<i>Krigia occidentalis</i>	No common name
<u><i>Cymbia occidentalis</i></u>	
<i>Kyllinga</i> sp.	No common name
<i>Kyllinga pumila</i>	No common name
<i>Lactuca</i> sp.	Lettuce
<i>Lactuca canadensis</i>	Tall lettuce
<i>Lactuca scariola integrata</i>	Prickly lettuce
<u><i>Lactuca integrata</i></u>	
<i>Lactuca pulchella</i>	Chicory lettuce
<i>Lactuca scariola</i>	No common name
<i>Lactuca virosa</i>	No common name
<i>Lagenaria</i> sp.	Gourd
<i>Lamium amplexicaule</i>	Henbit; <u>dead nettle</u>
<i>Lappula</i> sp.	Stickseed
<i>Lappula echinata</i>	European stickseed; <u>sticktight</u>
<u><i>Lappula lappula</i></u>	
<i>Lappula occidentalis</i>	Western stickseed; <u>hairy stickseed</u>
<u>"<i>Lappula texana</i>"</u>	
<i>Lappula virginiana</i>	Virginia stickseed
<i>Lapsana communis</i>	Nipplewort
<i>Lathyrus</i> sp.	Pea
<i>Lathyrus aphaca</i>	Yellow pea
<i>Lathyrus hirsutus</i>	Rough pea; <u>perennial sweet pea</u>
<i>Lathyrus palustris</i>	Marsh pea
<i>Lathyrus sativus</i>	Grass pea
<i>Lathyrus sylvestris wagneri</i>	Flat pea
<i>Lathyrus tingitamus</i>	Tangier pea
<i>Lathyrus tuberosus</i>	Groundnut pea; <u>wetchling</u>
<u><i>Legouzia</i> <i>perfoliata</i></u>	Venus lookingglass
<u><i>Specularia</i> <i>perfoliata</i></u>	
<i>Lentilla lens</i>	Lentil
<u><i>Lens</i> <i>esculenta</i></u>	
<u><i>Ervum</i> <i>lens</i></u>	
<i>Leontodon</i> sp.	Dandelion
<u><i>Leontodon autumnalis</i></u>	Fall-dandelion
<u><i>Apargia</i> <i>autumnalis</i></u>	

<u>Leontodon laevigatum</u>	Redseed dandelion
<u>Taraxacum erythrospermum</u>	
<u>Leontodon nudicaulis</u>	Rough hawkbit
<u>Apargia nudicaulis</u>	
<u>Leontodon taraxacum</u>	Dandelion
<u>Taraxacum officinale</u>	
<u>Leonurus cardiaca</u>	Motherwort
<u>Lepidium sp.</u>	Peppergrass
<u>Lepidium bipinnatifidum</u>	Wayside peppergrass
<u>Lepidium campestre</u>	Field peppergrass; <u>field cress</u>
<u>Lepidium densiflorum</u>	Prairie peppergrass
<u>"Lepidium apetalum"</u>	
<u>Lepidium draba</u>	Perennial peppergrass; <u>hoary cress</u> ; <u>whiteweek</u>
<u>Lepidium nitidum</u>	Tongue peppergrass
<u>Lepidium perfoliatum</u>	Clasping peppergrass
<u>Lepidium repens</u>	Lens peppergrass
<u>Lepidium virginicum</u>	American peppergrass
<u>Leptilon canadense</u>	Horseweed; <u>Canada fleabane</u>
<u>Erigeron canadensis</u>	
<u>Leptochloa sp.</u>	Sprangletop
<u>Leptochloa imbricata</u>	No common name
<u>Leptochloa uninervia</u>	
<u>Lespedeza sp.</u>	Lespedeza
<u>Lespedeza sericea</u>	Chinese lespedeza; <u>perennial lespedeza</u>
<u>Lespedeza stipulacea</u>	Korean lespedeza
<u>Lespedeza striata</u>	Common lespedeza
<u>Lespedeza striata</u> var.	Kobe lespedeza
<u>Linaria sp.</u>	Toadflax
<u>Linaria spuria</u>	Roundleaf toadflax
<u>Kickxia spuria</u>	
<u>Linaria vulgaris</u>	Butter-and-eggs; <u>common toadflax</u>
<u>Linaria linaria</u>	
<u>Linum usitatissimum</u>	Flax
<u>Linum virginianum</u>	Woodland flax; <u>wild yellow flax</u>
<u>Cathartolinum virginianum</u>	
<u>Lithospermum sp.</u>	Gromwell
<u>Lithospermum arvense</u>	Field gromwell; <u>corn gromwell</u>

<i>Lobelia</i> sp.	<i>Lobelia</i>
<i>Lobelia inflata</i>	Indian-tobacco
<i>Lolium</i> sp.	Ryegrass
<i>Lolium multiflorum</i> <u><i>Lolium italicum</i></u>	Italian ryegrass
<i>Lolium perenne</i>	Perennial ryegrass; <u>English ryegrass</u>
<i>Lolium temulentum</i>	Darnel
<i>Lolium rigidum</i> duthiei	No common name
<i>Lotus americanus</i> <u><i>Hosackia americana</i></u>	Deervetch; <u>prairie birdsfoot trefoil</u>
<i>Lotus corniculatus</i>	Birdsfoot trefoil
<i>Ludwigia alternifolia</i>	Seedbox
<i>Lupinus</i> sp.	Lupine
<i>Lychnis</i> sp.	Campion
<i>Lychnis alba</i>	<u>Evening campion; white campion</u>
<i>Lycopus virginicus</i>	American bugleweed
<i>Lysimachia nummularia</i>	Moneywort
<i>Lythrum hyssopifolia</i>	Hyssop loosestrife
<i>Madia glomerata</i>	Cluster tarweed
<i>Madia sativa</i>	Chilean tarweed
<i>Malva</i> sp.	Mallow
<i>Malva crispa</i>	Curly mallow
<i>Malva parviflora</i>	Little mallow
<i>Malva rotundifolia</i>	Running mallow; <u>cheeses</u>
<i>Malva sylvestris</i>	High mallow
<i>Malva verticillata</i>	Cluster mallow
<i>Marrubium vulgare</i>	White hoarhound
<i>Matricaria chamomilla</i>	<u>Wild-camomile; German false-camomile</u>
<i>Matricaria inodora</i>	<u>False-camomile; scentless false-camomile</u>
<i>Matricaria matricarioides</i>	Pineappleweed
<i>Medicago arabica</i>	Spotted bur-clover
<i>Medicago hispida</i> <u><i>Medicago hispida denticulata</i></u>	California bur-clover
<i>Medicago lupulina</i>	Black medick; <u>yellow trefoil</u>
<i>Medicago orbicularis</i>	Buttonclover; <u>button bur-clover</u>

<i>Medicago sativa</i>	Alfalfa
<i>Meibomia purpurea</i> <i>Meibomia tortuosa</i> <i>Desmodium tortuosum</i>	Florida beggarweed; <u>beggarweed</u> ; <u>Cherokee clover</u>
<i>Melilotus sp.</i>	Sweetclover
<i>Melilotus alba</i>	White sweetclover
<i>Melilotus indica</i>	Sourclover; <u>annual yellow sweetclover</u>
<i>Melilotus officinalis</i>	Yellow sweetclover; <u>biennial yellow sweetclover</u>
<i>Melinia minutiflora</i>	Molasses grass
<i>Melissa officinalis</i>	Balm
<i>Mentha sp.</i>	Mint
<i>Mentha arvensis</i>	Field mint
<i>Mentha canadensis</i>	American wild mint
<i>Moldavica sp.</i>	Dragonhead
<i>Moldavica parviflora</i> <i>Dracocephalum parviflorum</i>	American dragonhead
<i>Molinia caerulea</i>	Lavender grass
<i>Mollugo verticillata</i>	Carpetweed
<i>Monarda fistulosa</i>	Wildbergamot
<i>Mucuna utilis</i> <i>Stizolobium utile</i>	Velvetbean
<i>Muhlenbergia asperifolia</i> <i>Sporobolus asperifolius</i>	Scratchgrass
<i>Myosotis sp.</i>	Forget-me-not
<i>Myosotis arvensis</i>	Field forget-me-not
<i>Myosotis scorpioides</i>	True forget-me-not
<i>Nasturtium austriacum</i> <i>Radicula austriaca</i>	Austrian fieldcress
<i>Navarretia intertexta</i>	No common name
<i>Navarretia squarrosa</i>	Skunkweed
<i>Nazia racemosa</i> <i>Tragus racemosus</i>	European burgrass; <u>prickle-grass</u>
<i>Nepeta cataria</i>	Catnip
<i>Neslia paniculata</i>	Ballmustard
<i>Nicandra physalodes</i> <i>Physalodes physalodes</i>	Apple-of-Peru
<i>Nigella sp.</i>	Love-in-a-mist
<i>Nigella damescena</i>	Love-in-a-mist
<i>Nigella sativa</i>	Black-cumin; <u>ragged lady</u>

<u>Norta altissima</u>	Tumblemustard
<u>Sisymbrium altissimum</u>	
<u>Notholcus lanatus</u>	Velvet grass
<u>Holcus lanatus</u>	
<u>Notholcus mollis</u>	Softgrass; <u>meadow soft grass</u> ; <u>German mesquite grass</u>
<u>Holcus mollis</u>	
Oenothera sp.	Evening-primrose
Oenothera biennis	Evening-primrose
<u>Onagra biennis</u>	
<u>Oenothera laciniata</u>	Cutleaf evening-primrose
<u>Raimannia laciniata</u>	
<u>Onobrychis viciaefolia</u>	Sainfoin
<u>Onobrychis vulgaris</u>	
<u>Onobrychis sativa</u>	
Onopordon acanthium	Cottontistle; <u>Scotch thistle</u>
Ornithopus sativus	Serradella
Orobanche sp.	Broomrape
Orobanche ramosa	Hemp broomrape
Oryza sativa	Rice
Oryzopsis sp.	Ricegrass
Oryzopsis hymenoides	Indian ricegrass; <u>quincy grass</u>
Oryzopsis miliacea	No common name
Osmorhiza longistylis	Aniseroot; <u>sweet cicely</u>
Oxalis stricta	Yellow oxalis; <u>yellow wood sorrel</u>
<u>Panicularia americana</u>	American mannagrass; <u>tall mannagrass</u>
<u>Glyceria grandis</u>	
<u>Panicularia fluitans</u>	Mannagrass
<u>Glyceria fluitans</u>	
<u>Panicularia nervata</u>	Fowl mannagrass; <u>nerved mannagrass</u>
<u>Glyceria striata</u>	
Panicum anceps	No common name
<u>Panicum rostratum</u>	
Panicum capillare	Witchgrass
Panicum capillare occidentale	No common name
<u>Panicum barbipulvinatum</u>	
<u>Panicum colonum</u>	Jungle-rice
<u>Echinochloa colonum</u>	
Panicum dichotomiflorum	Fall panicum; <u>spreading panicum</u>
Panicum fasciculatum	Browntop millet
<u>Panicum fuscum</u>	
Panicum gracile	No common name

## SEED LIST\*

<i>Abrus precatorius</i>	Rosary-pea
<i>Abutilon theophrasti</i>	Velvetleaf
<i>Acalypha virginica</i>	Three-seed; <u>three-seeded mercury</u>
<i>Acanthospermum australe</i>	Star-bur; <u>spiny-bur</u>
<i>Achillea millefolium</i>	Common yarrow
<i>Aeschynomene virginica</i>	Northern jointvetch; <u>sensitive joint vetch</u>
<i>Adesmia</i> sp.	No common name
<i>Ageratum</i> sp.	Ageratum
<i>Agoseris</i> sp.	Lamslettuce
<i>Agropyron</i> sp.	Wheatgrass
<i>Agropyron cristatum</i>	Crested wheatgrass
<i>Agropyron pauciflorum</i> <u><i>Agropyron tenerum</i></u>	Slender wheatgrass
<i>Agropyron repens</i>	Quackgrass
<i>Agropyron smithii</i> <u><i>Agropyron occidentale</i></u>	Bluestem; <u>western wheatgrass</u>
<i>Agrostemma githago</i>	Corncockle
<i>Agrostis</i> sp.	Bentgrass
<i>Agrostis alba</i>	Redtop
<i>Agrostis canina</i>	Velvet bent
<i>Agrostis exarata</i>	Spike redtop
<i>Agrostis exarata monolepis</i>	No common name
<i>Agrostis hiemalis</i>	Ticklegrass
<i>Agrostis longiligula</i>	No common name
<i>Agrostis nigra</i>	Black bent; <u>coarse bent</u>
<i>Agrostis palustris</i> <u><i>Agrostis maritima</i></u>	Creeping bent; <u>seaside bent</u> . Also the horticultural strains ( <u>carpet bent</u> ): Washington, Metropolitan, and others
<i>Agrostis spica-venti</i> <u><i>Apera spica-venti</i></u>	Windgrass; <u>silky bent grass</u>
<i>Agrostis stolonifera</i>	No common name
<i>Agrostis tenuis</i>	Colonial bent; <u>Rhode Island bent</u> ; <u>brown top</u>
<i>Agrostis tenuis</i> var.	Astoria bent
<i>Agrostis tenuis aristata</i>	No common name
<i>Agrostis tenuis</i> var.	Highland bent; <u>Oregon bent</u>
<i>Aira caespitosa</i> <u><i>Deschampsia caespitosa</i></u>	Tufted hairgrass

\*Synonyms, or unapproved names, underscored

<i>Aira caryophyllea</i>	Silver hairgrass
<i>Aira flexuosa</i> <i>Deschampsia flexuosa</i>	Crinkled hairgrass; <u>eastern hairgrass</u>
<i>Ajuga</i> sp.	Bugle
<i>Ajuga chamaepitys</i>	Ground bugle
<i>Ajuga reptans</i>	Carpet bugle
<i>Alchemilla</i> sp.	Ladysmantle
<i>Aleurites moluccana</i>	Candlenut
<i>Alhagi pseudalhagi</i> <u><i>Alhagi camelorum</i></u>	Camelthorn
<i>Allium vineale</i>	Wild garlic
<i>Allocarya</i> sp.	Scorpionweed
<i>Allocarya californica</i>	No common name
<i>Allocarya hispidula</i>	No common name
<i>Allocarya scouleri</i>	No common name
<i>Alopecurus</i> sp.	Foxtail
<i>Alopecurus geniculatus</i>	Water foxtail; <u>marsh foxtail</u>
<i>Alopecurus myosuroides</i> <u><i>Alopecurus agrestis</i></u>	Slender foxtail
<i>Alopecurus pratensis</i>	Meadow foxtail
<i>Alsine graminea</i> <u><i>Stellaria graminea</i></u>	Little starwort
<i>Alsine media</i> <u><i>Stellaria media</i></u>	Chickweed
<i>Althaea hirsuta</i>	No common name
<i>Alyssum</i> sp.	Alyssum
<i>Alyssum alyssoides</i>	Pale alyssum; <u>yellow alyssum</u>
<i>Amaranthus</i> sp.	Amaranth
<i>Amaranthus blitoides</i>	Spreading amaranth
<i>Amaranthus graecizans</i>	Tumble amaranth
<i>Amaranthus hybridus</i>	Slim amaranth
<i>Amaranthus retroflexus</i>	Redroot amaranth; <u>rough pig weed</u>
<i>Amaranthus spinosus</i>	Spiny amaranth; <u>prickly careless</u> ; <u>thorny careless</u>
<i>Ambrosia</i> sp.	Ragweed
<i>Ambrosia elatior</i> <u><i>Ambrosia artemisiaefolia</i></u>	Common ragweed
<i>Ambrosia psilostachya</i>	Western ragweed

<i>Ambrosia trifida</i>	Big ragweed; <u>great ragweed</u>
<i>Ammi visnaga</i>	Toothpickplant
<i>Amsinckia</i> sp.	Fiddleneck
<i>Amsinckia intermedia</i>	Coast fiddleneck
<i>Amorpha canescens</i>	Leadplant
<i>Anagallis arvensis</i>	Red pimpernel
<i>Andropogon</i> sp.	Beardgrass
<i>Andropogon glomeratus</i>	Bushy beardgrass
<i>Andropogon sorghum sudanensis</i>	Sudan grass
<i>Holcus sorghum sudanensis</i>	
<i>Sorghum vulgare sudanense</i>	
<i>Andropogon virginicus</i>	Broomsedge
<i>Anthemis arvensis</i>	Field camomile
<i>Anthemis cotula</i>	Mayweed
<i>Anthemis tinctoria</i>	Yellow camomile
<i>Anthoxanthum</i> sp.	Vernalgrass
<i>Anthoxanthum aristatum</i>	Annual vernalgrass
<i>Anthoxanthum puelii</i>	
<i>Anthoxanthum odoratum</i>	Sweet vernalgrass
<i>Anthriscus sylvestris</i>	Wild chervil
<i>Anthyllis vulneraria</i>	Kidneyvetch
<i>Antirrhinum</i> sp.	Snapdragon
<i>Antirrhinum orontium</i>	Corn snapdragon
<i>Apargia</i> sp.	No common name
<i>Apargia autumnalis</i>	
<i>Leontodon autumnalis</i>	Fall-dandelion
<i>Apargia nudicaulis</i>	
<i>Leontodon nudicaulis</i>	Rough hawkbit
<i>Apera spica-venti</i>	Windgrass; <u>silky bentgrass</u>
<i>Agrostis spica-venti</i>	
<i>Apium ammi</i>	No common name
<i>Apocynum</i> sp.	Dogbane
<i>Apocynum cannabinum</i>	Hemp dogbane; <u>Indian-hemp</u>
<i>Arabidopsis thaliana</i>	Mouse-ear-cress
<i>Stenophragma thaliana</i>	
<i>Arabis</i> sp.	Rockcress
<i>Arabis glabra</i>	Towermustard

<i>Panicum hians</i>	No common name
<u><i>Steinchisma hians</i></u>	
<i>Panicum hillmani</i>	No common name
<i>Panicum lanuginosum</i>	No common name
<i>Panicum maximum</i>	Guinea grass
<i>Panicum miliaceum</i>	Proso; <u>broomcorn millet</u> ; <u>hog millet</u>
<i>Panicum purpurascens</i>	Para grass
<u><i>Panicum rostratum</i></u>	No common name
<u><i>Panicum anceps</i></u>	
<i>Panicum virgatum</i>	Switchgrass; <u>tall smooth panicum</u>
<i>Papaver</i> sp.	Poppy
<i>Papaver dubium</i>	Longpod poppy
<i>Papaver rhoeas</i>	Corn poppy
<i>Papaver somniferum</i>	Opium poppy
<u><i>Parsonisia petiolata</i></u>	Clammy cuphea
<u><i>Cuphea petiolata</i></u>	
<i>Paspalum boscianum</i>	Bull paspalum
<u><i>Paspalum compressum</i></u>	Carpet grass
<u><i>Axonopus compressus</i></u>	
<i>Paspalum dilatatum</i>	Dallis grass
<i>Paspalum distichum</i>	Knotgrass
<i>Paspalum laeve</i>	Field paspalum
<i>Paspalum notatum</i>	Bahia grass
<i>Paspalum setaceum</i>	Slender paspalum
<i>Paspalum urvillei</i>	Vasey grass
<u><i>Paspalum larranagai</i></u>	
<i>Pastinaca sativa</i>	Parsnip
<i>Pedicularis</i> sp.	Fernleaf
<u><i>Pennisetum glaucum</i></u>	Pearl millet
<u><i>Pennisetum spicatum</i></u>	
<i>Pennisetum purpureum</i>	Napier grass; <u>merker grass</u>
<i>Petalostemum candidum</i>	White prairieclover
<i>Phacelia</i> sp.	Curlybloom
<i>Phalaris</i> sp.	Canary grass
<i>Phalaris angusta</i>	Timothy canary grass
<i>Phalaris arundinacea</i>	Reed canary grass

<i>Phalaris canariensis</i>	Canary grass
<i>Phalaris caroliniana</i>	Carolina canary grass
<i>Phalaris minor</i>	Little canary grass
<i>Phalaris paradoxa</i>	Hidehead canary grass; <u>gnawed canary grass</u>
<i>Phalaris tuberosa</i> <u>"Phalaris bulbosa"</u>	No common name
<i>Phalaris tuberosa stenoptera</i> <u>Phalaris stenoptera</u>	Harding grass; <u>Peruvian winter grass</u>
<i>Phleum pratense</i>	Timothy
<i>Physalis</i> sp.	Groundcherry
<i>Physalis rotundata</i>	Roundleaf groundcherry
<i>Physalodes physalodes</i> <u>Nicandra physalodes</u>	Apple-of-Peru
<i>Phytolacca americana</i> <u>Phytolacca decandra</u>	Pokeberry
<i>Picris echioides</i>	Oxtongue
<i>Picris hieracioides</i>	Hawkweed picris
<i>Pisum</i> sp.	Pea
<i>Pisum sativum arvense</i> <u>Pisum arvense</u>	Field pea
<i>Pisum sativum</i>	Garden pea
<i>Plantago arenaria</i>	Branching plantain
<i>Plantago aristata</i>	Bottlebrush plantain; <u>bracted plantain</u>
<i>Plantago coronopus</i>	Crowfoot plantain
<i>Plantago elongata</i>	No common name
<i>Plantago lanceolata</i>	Buckhorn plantain
<i>Plantago major</i>	Rippleseed plantain
<i>Plantago ovata</i>	Spogel plantain; <u>blond psyllium</u>
<i>Plantago psyllium</i>	Pleaseed plantain; <u>psyllium</u>
<i>Plantago purshii</i>	Woolly Indianwheat
<i>Plantago rhodosperma</i>	Redseed plantain
<i>Plantago rugelii</i>	Blackseed plantain
<i>Plantago virginica</i>	Paleseed plantain; <u>dwarf plantain</u>
<i>Poa</i> sp.	Bluegrass
<i>Poa annua</i>	Annual bluegrass

<i>Poa arachnifera</i>	Texas bluegrass
<i>Poa bulbosa</i>	Bulbous bluegrass
<i>Poa compressa</i>	Canada bluegrass
<i>Poa nemoralis</i>	Wood bluegrass; <u>wood meadow grass</u>
<i>Poa palustris</i> <u><i>Poa triflora</i></u>	Fowl bluegrass
<i>Poa pratensis</i>	Kentucky bluegrass
<i>Poa sudeetica</i>	No common name
<i>Poa trivialis</i>	Rough bluegrass; <u>rough-stalked meadow grass</u>
<u><i>Poa triflora</i></u> <i>Poa palustris</i>	Fowl bluegrass
<i>Polygala</i> sp.	Polygala
<i>Polygonum</i> sp.	No common name
<i>Polygonum argyrocoleon</i>	Silversheath knotweed
<i>Polygonum aviculare</i>	Knotweed
<i>Polygonum convolvulus</i>	Cornbind; <u>black bindweed</u>
<i>Polygonum hydropiper</i>	Smartweed
<i>Polygonum kelloggii</i>	No common name
<i>Polygonum lapathifolium</i>	Pale ladysthumb; <u>pale knotweed</u>
<i>Polygonum muhlenbergii</i> <u><i>Polygonum emersum</i></u>	Bigroot ladysthumb; <u>water smartweed</u>
<i>Polygonum pensylvanicum</i>	Bigseed ladysthumb; <u>Pennsylvania knotweed</u>
<i>Polygonum persicaria</i>	Ladysthumb
<i>Polygonum punctatum</i>	American smartweed
<i>Polypogon monspeliensis</i>	Rabbitfoot grass
<i>Portulaca oleracea</i>	Purslane
<i>Potentilla</i> sp.	Cinquefoil
<i>Potentilla biennis</i>	No common name
<i>Potentilla canadensis</i>	Oldfield cinquefoil; <u>five finger</u>
<i>Potentilla monspeliensis</i>	Strawberryweed; <u>cinquefoil</u>
<i>Potentilla rivalis</i>	No common name
<i>Prunella vulgaris</i>	Selfheal
<i>Psoralea</i> sp.	Scurf-pea
<i>Psoralea tenuifolia</i>	No common name
<i>Puccinellia nuttalliana</i>	Nuttall alkali-grass; <u>zwadke alkali-grass</u>
<u><i>Pycnanthemum</i></u> sp. <i>Koellia</i> sp.	Mountain-mint

<u>Pycnanthemum flexuosum</u>	Slender mountain-mint
<u>Koellia flexuosa</u>	
Radicula sp.	Marshcress
<u>Roripa sp.</u>	
Radicula austriaca	Austrian fieldcress
<u>Nasturtium austriacum</u>	
Raimannia laciniata	Cutleaf evening-primrose
<u>Oenothera laciniata</u>	
Ranunculus sp.	Buttercup
Ranunculus abortivus	Littleleaf crowfoot
Ranunculus acris	Tall buttercup
Ranunculus arvensis	Corn crowfoot
Ranunculus bulbosus	Bulb buttercup
Ranunculus parviflorus	Sticktight crowfoot; <u>small-flowered buttercup</u>
Ranunculus repens	Creeping buttercup
Ranunculus sardous	Wartseed buttercup; <u>hairy buttercup</u>
<u>Ranunculus parvulus</u>	
Ranunculus sceleratus	Blister crowfoot; <u>celery-leaved crowfoot</u>
Raphanus raphanistrum	Wild radish
Raphanus sativus	Radish
Reseda lutea	Base-rocket; <u>mignonette</u>
Reseda odorata	Mignonette
Richardia scabra	Mexican-clover
<u>Richardsonia scabra</u>	
Ricinus communis	Castor-bean
Rosa sp.	Rose
Rosa blanda	Meadow rose
Roubieva multifida	Flatweed
Rudbeckia sp.	Coneflower
<u>Rudbeckia amplexicaulis</u>	Clasping coneflower
<u>Dracopis amplexicaulis</u>	
Rudbeckia hirta	Black-eyed-susan
Rubus sp.	Blackberry
Rumex sp.	No common name
Rumex acetosa	Garden sorrel; <u>sour dock</u>
Rumex acetosella	Sheep sorrel
Rumex conglomeratus	Green dock
Rumex crispus	Curly dock

<i>Rumex mexicanus</i>	No common name
<i>Rumex obtusifolius</i>	Bitter dock
<i>Rumex salicifolius</i>	No common name
<i>Salsola pestifer</i>	Russian-thistle
<i>Salvia</i> sp.	Sage
<i>Salvia lanceaefolia</i>	Lanceleaf sage
<i>Salvia lanceolata</i>	
<i>Salvia officinalis</i>	Garden sage
<i>Salvia sclarea</i>	Clary; <u>clear-eye</u>
<i>Salvia sylvestris</i>	Pasture sage; <u>wild sage</u>
<i>Sanguisorba</i> sp.	Burnet
<i>Sanguisorba annua</i>	Prairie burnet
<i>Sanguisorba minor</i>	Little burnet
<i>Sanguisorba sanguisorba</i>	
<i>Sanicula</i> sp.	Sanicle
<i>Sanicula menziesii</i>	Foothill sanicle
<i>Saponaria officinalis</i>	Bouncing-bet
<i>Saponaria vaccaria</i>	Cowcockle
<i>Vaccaria vaccaria</i>	
<i>Vaccaria pyramidata</i>	
<i>Sarothra gentianoides</i>	Pineweed; <u>orange-grass</u>
<i>Hypericum gentianoides</i>	
<i>Saussurea affinis</i>	No common name
<i>Satureja acinos</i>	Basil-thyme
<i>Clinopodium acinos</i>	
<i>Scabiosa arvensis</i>	Field scabiosa
<i>Knautia arvensis</i>	
<i>Scirpus</i> sp.	Bulrush
<i>Scleranthus annuus</i>	Knawel; <u>German knotgrass</u>
<i>Scrophularia</i> sp.	Figwort
<i>Scrophularia marilandica</i>	American figwort; <u>Maryland figwort</u>
<i>Scrophularia nodosa</i>	Wood figwort
<i>Secale cereale</i>	Rye
<i>Sedum telephium</i>	Liveforever
<i>Senecio</i> sp.	Groundsel
<i>Senecio vulgaris</i>	Groundsel

<i>Serinia oppositifolia</i>	No common name
<i>Sesamum orientale</i> <u><i>Sesamum indicum</i></u>	Sesame
<i>Sesbania emerus</i> <u><i>Sesbania macrocarpa</i></u>	Danglepod
<i>Sesuvium sessile</i>	Inland seapurslane; <u>sea purslane</u>
<i>Setaria geniculata</i> <u><i>Chaetochloa geniculata</i></u>	Knotroot bristlegrass
<i>Setaria globulifera</i> <u><i>Chaetochloa globulifera</i></u>	No common name
<i>Setaria italica</i> <u><i>Chaetochloa italica</i></u>	Foxtail millet; German; Hungarian; golden (common); and others
<i>Setaria lutescens</i> <u><i>Chaetochloa lutescens</i></u>	Yellow bristlegrass; <u>yellow foxtail</u>
<i>Setaria viridis</i> <u><i>Chaetochloa viridis</i></u>	Green bristlegrass; <u>green foxtail</u>
<i>Sherardia arvensis</i>	Field madder; <u>blue field madder</u>
<i>Sida spinosa</i>	Spinemallow; <u>spiny sida</u>
<i>Silene anglica</i>	English catchfly
<i>Silene antirrhina</i>	Sleepy catchfly
<i>Silene dichotoma</i>	Clover catchfly; <u>forked catchfly</u>
<i>Silene latifolia</i> <u><i>Silene vulgaris</i></u>	Bladder campion
<i>Silene noctiflora</i>	Nightblooming catchfly
<i>Silybum marianum</i>	Milkthistle
<u><i>Sinapis alba</i></u> <i>Brassica alba</i>	White mustard
<u><i>Sinapis arvensis</i></u> <i>Brassica arvensis</i>	Charlock
<u><i>Sisymbrium altissimum</i></u> <i>Norta altissima</i>	Tumblemustard
<u><i>Sisymbrium canescens</i></u> <i>Sophia pinnata</i>	Tansymustard
<u><i>Sisymbrium incisum</i></u> <i>Sophia incisa</i>	Green tansymustard
<u><i>Sisymbrium officinale</i></u> <i>Erysimum officinale</i>	Hedgemustard
<i>Sisyrinchium</i> sp.	Blue-eyed-grass
<i>Soja max</i> <u><i>Glycine hispida</i></u>	Soybean
<i>Solanum</i> sp.	Nightshade
<i>Solanum carolinense</i>	Horsenettle
<i>Solanum elaeagnifolium</i>	Trompillo

<i>Solanum nigrum</i>	Black nightshade
<i>Solanum rostratum</i>	Buffalo-bur
<i>Solanum triflorum</i>	Cutleaf nightshade
<i>Solidago</i> sp.	Goldenrod
<i>Solidago canadensis</i>	Canada goldenrod
<i>Sonchus</i> sp.	Sowthistle
<i>Sonchus arvensis</i>	Perennial sowthistle
<i>Sonchus asper</i>	Prickly sowthistle; <u>spiny sowthistle</u>
<i>Sonchus oleraceus</i>	Common sowthistle
<i>Sophia pinnata</i> <u><i>Sisymbrium canescens</i></u>	Tansymustard
<i>Sophia incisa</i> <u><i>Sisymbrium incisum</i></u>	Green tansymustard
<i>Sorghum halepense</i> <u><i>Holcus halepensis</i></u>	Johnson grass
<i>Sorghum virgatum</i>	Tunis grass
<i>Sorghum vulgare</i> <u><i>Holcus sorghum</i></u>	Sorghum
<i>Sorghum vulgare sudanense</i> <u><i>Holcus sorghum sudanensis</i></u> <u><i>Andropogon sorghum sudanensis</i></u>	Sudan grass
<i>Specularia perfoliata</i> <u><i>Legouzia perfoliata</i></u>	Venus lookingglass
<i>Spergula arvensis</i>	Corn spurry
<i>Spergula pentandra</i>	Wingseed spurry
<i>Spergularia rubra</i> <u><i>Tissa rubra</i></u>	Red sandspurry
<i>Sporobolus</i> sp.	Dropseed
<u><i>Sporobolus asperifolius</i></u> <u><i>Muhlenbergia asperifolia</i></u>	Scratchgrass
<i>Sporobolus clandestinus</i>	Scratch dropseed; <u>rush grass</u>
<i>Sporobolus cryptandrus</i>	Sand dropseed
<i>Sporobolus neglectus</i>	Puff dropseed; <u>small rush grass</u>
<i>Sporobolus rigens</i>	No common name
<i>Stachys</i> sp.	Betony
<i>Stachys agraria</i>	Shade betony
<i>Stachys annua</i>	Field betony; <u>hedge nettle</u>
<i>Stachys palustris</i>	Marsh betony; <u>hedge nettle</u>
<u><i>Steinchisma hians</i></u> <u><i>Panicum hians</i></u>	No common name

<u>Stellaria graminea</u> Alsine graminea	Little starwort
<u>Stellaria media</u> Alsine media	Chickweed
<u>Stenophragma thaliana</u> Arabidopsis thaliana	Mouse-ear-cress
Stipa sp.	Needlegrass
Stipa comata	Needle-and-thread; <u>western stipa</u> ; <u>feathergrass</u>
Stipa viridula	Green needlegrass; <u>feathergrass</u>
Stizolobium utile <u>Mucuna utilis</u>	Velvetbean
Swainsona salsula	No common name
<u>Syntherisma</u> sp.	Crabgrass
<u>Syntherisma exile</u> Digitaria exilis	Fundi grass
<u>Syntherisma filiformis</u> Digitaria filiformis	Slender crabgrass; <u>slender finger-grass</u>
<u>Syntherisma ischaemum</u> Digitaria ischaemum	Smooth crabgrass
<u>Syntherisma sanguinalis</u> Digitaria sanguinalis	Crabgrass
<u>Taraxacum erythrospermum</u> Leontodon laevigatum	Redseed dandelion
<u>Taraxacum officinale</u> Leontodon taraxacum	Dandelion
<u>Tecoma radicans</u> Bignonia radicans	Trumpet creeper
Teucrium sp.	Germander
Teucrium canadense	American germander
Teucrium scorodonia	Wood germander
Thalictrum sp.	Meadow Rue
Thlaspi arvense	Pennycress; <u>Frenchweed</u>
Thymus serpyllum	Mother-of-thyme
Tissa sp.	Sandspurry
Tissa rubra <u>Spergularia rubra</u>	Red sandspurry
Torilis nodosa <u>Caucalis nodosa</u>	Hedgeparsley; <u>knotted hedge parsley</u>
Tragopogon porrifolius	Oysterplant; <u>vegetable-oyster</u>
Tragopogon pratensis	Buckbeard
Tragus racemosus <u>Nazia racemosa</u>	European burgrass; <u>prickle-grass</u>

<i>Trianthema portulacastrum</i>	Horse-purslane; <u>desert purslane</u>
<i>Tribulus terrestris</i>	Puncturevine
<i>Tricholaena rosea</i>	Natal grass
<i>Trichostema lanceolatum</i>	Bluecurls
<i>Tridens flavus</i>	Purpletop
<i>Triodia flava</i>	
<i>Trifolium angulatum</i>	Crooked clover
<i>Trifolium agrarium</i>	Hop clover
<i>Trifolium aureum</i>	
<i>Trifolium alexandrinum</i>	Berseem; <u>Egyptian clover</u>
<i>Trifolium arvense</i>	Rabbitfoot clover
<i>Trifolium bifidum</i>	Pinole clover
<i>Trifolium carolinianum</i>	Carolina clover
<i>Trifolium dubium</i>	Suckling clover
<i>Trifolium fragiferum</i>	Strawberry clover
<i>Trifolium glomeratum</i>	Cluster clover
<i>Trifolium gracilentum</i>	Pinpoint clover
<i>Trifolium hybridum</i>	Alsike clover
<i>Trifolium incarnatum</i>	Crimson clover
<i>Trifolium microcephalum</i>	Pinhead clover
<i>Trifolium parviflorum</i>	Teasel clover
<i>Trifolium pratense</i>	Red clover
<i>Trifolium procumbens</i>	Mignonette clover; <u>low hop clover</u>
<i>Trifolium repens</i>	White clover
<i>Trifolium resupinatum</i>	Shaftal clover; <u>Persian clover</u>
<i>Trifolium suaveolens</i>	
<i>Trifolium supinum</i>	Cocklebur clover
<i>Trifolium subterraneum</i>	Subterranean clover
<i>Trifolium tridentatum</i>	Tomcat clover
<i>Trigonella foenum-graecum</i>	Fenugreek
<i>Triodia flava</i>	Purpletop
<i>Tridens flavus</i>	
<i>Trisetum</i> sp.	Trisetum
<i>Trisetum flavescens</i>	Yellow trisetum; <u>yellow oatgrass</u>
<i>Avena flavescens</i>	
<i>Triticum aestivum</i>	Wheat
<i>Triticum vulgare</i>	
<i>Triticum sativum</i>	

<i>Urtica</i> sp.	Nettle
<i>Urtica dioica</i>	Big nettle; <u>stinging nettle</u>
<i>Urtica gracilis</i>	Narrowleaf nettle; <u>slender nettle</u>
<i>Vaccaria pyramidata</i>	Cowcockle
<u><i>Vaccaria vaccaria</i></u>	
<u><i>Saponaria vaccaria</i></u>	
<i>Valerianella</i> sp.	Cornsalad
<i>Valerianella dentata</i>	Toothed cornsalad
<i>Valerianella eriocarpa</i>	Italian cornsalad
<i>Valerianella locusta</i>	Cornsalad
<i>Verbascum</i> sp.	Mullein
<i>Verbascum blattaria</i>	Moth mullein
<i>Verbascum phlomoides</i>	Clasping mullein
<i>Verbascum thapsus</i>	Flannel mullein
<i>Verbena</i> sp.	Vervain
<i>Verbena angustifolia</i>	Narrowleaf vervain
<i>Verbena hastata</i>	Blue vervain
<i>Verbena officinalis</i>	Vervain
<i>Verbena stricta</i>	Hoary vervain
<i>Verbena urticifolia</i>	White vervain
<i>Vernonia</i> sp.	Ironweed
<i>Vernonia noveboracensis</i>	Coast ironweed
<i>Veronica</i> sp.	Speedwell
<i>Veronica agrestis</i>	Field speedwell
<i>Veronica arvensis</i>	Corn speedwell
<i>Veronica hederaefolia</i>	Ivyleaf speedwell
<i>Veronica officinalis</i>	Male speedwell
<i>Veronica peregrina</i>	Purslane speedwell
<i>Veronica serpyllifolia</i>	Thymeleaf speedwell
<i>Vicia</i> sp.	Vetch
<i>Vicia angustifolia</i>	Narrowleaf vetch
<i>Vicia atropurpurea</i>	Purple vetch
<i>Vicia cracca</i>	Bird vetch
<i>Vicia dasycarpa</i>	Woollypod vetch
<i>Vicia ervilia</i>	Bitter vetch

<i>Vicia faba</i>	Broadbean
<i>Vicia gracilis</i>	Slender vetch
<i>Vicia grandiflora</i>	No common name
<i>Vicia hirsuta</i>	Tiny vetch
<i>Vicia lutea</i>	Yellow vetch
<i>Vicia monantha</i>	Monantha vetch
<i>Vicia pannonica</i>	Hungarian vetch
<i>Vicia sativa</i>	Common vetch
<i>Vicia tetrasperma</i>	Fourseed vetch
<i>Vicia villosa</i>	Hairy vetch
<i>Vigna sinensis</i>	Cowpea
<i>Viola tricolor</i>	Pansy
<i>Weingartneria canescens</i> <i>Corynephorus canescens</i>	Club-awn
<i>Xanthium sp.</i>	Cocklebur
<del><i>Xanthium</i></del> <i>spinosum</i>	Spiny cocklebur
<i>Zoysia japonica</i>	Japanese lawn grass
<i>Zoysia matrella</i> <i>Zoysia pungens</i>	Manila grass
<i>Zoysia tenuifolia</i> <i>Osterdamia tenuifolia</i>	Mascarene grass





PHOTOGRAPHS  
of DRAWINGS of  
SEEDS

THE MORE IMPORTANT FORAGE-PLANT SEEDS AND  
INCIDENTAL SEEDS COMMONLY FOUND WITH THEM

By

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The More Important Forage-Plant Seeds and  
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Dondia depressa		5	Lepidium virginicum		6
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<i>Norta altissima</i>	7		<i>Setaria lutescens</i>	1
<i>Oenothera biennis</i>	11		<i>Setaria viridis</i>	1
<i>Onobrychis viciaefolia</i>	10		<i>Sherardia arvensis</i>	13
<i>Ornithopus sativus</i>	10		<i>Sida spinosa</i>	10
<i>Oxalis stricta</i>	10		<i>Silene anglica</i>	5
<i>Panicum capillare</i>	1		<i>Silene antirrhina</i>	5
<i>Panicum dichotomiflorum</i>	1		<i>Silene dichotoma</i>	5
<i>Panicum sp.</i>	1		<i>Silene latifolia</i>	5
<i>Panicum miliaceum</i>	1		<i>Silene noctiflora</i>	5
<i>Panicum virgatum</i>	1		<i>Solanum carolinense</i>	13
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<i>Papaver rhoes</i>	6		<i>Solanum nigrum</i>	13
<i>Papaver somniferum</i>	6		<i>Sonchus arvensis</i>	14
<i>Papaver spp.</i>	6		<i>Sonchus asper</i>	14
<i>Paspalum dilatatum</i>	1		<i>Sonchus oleraceus</i>	14
<i>Paspalum laeve</i>	1		<i>Sorghum halepense</i>	1
<i>Paspalum setaceum</i>	1		<i>Sorghum vulgare sudanense</i>	1
<i>Phleum pratense</i>	1		<i>Specularia perfoliata</i>	14
<i>Picris echoides</i>	14		<i>Spergula arvensis</i>	6
<i>Picris hieracoides</i>	14		<i>Spergula pentandra</i>	6
<i>Pisum sativum arvense</i>	9		<i>Sporobolus clandestinus</i>	2
<i>Pisum sativum</i>	9		<i>Sporobolus cryptandrus</i>	2
<i>Plantago aristata</i>	13		<i>Sporobolus neglectus</i>	2
<i>Plantago lanceolata</i>	13		<i>Stachys annua</i>	12
<i>Plantago major</i>	13		<i>Stachys palustris</i>	12
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<i>Plantago virginica</i>	13		<i>Teucrium canadense</i>	12
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<i>Poa bulbosa</i>	3		<i>Thlaspi arvense</i>	7
<i>Poa compressa</i>	3		<i>Torilis nodosa</i>	11
<i>Poa nemoralis</i>	3		<i>Tragopogon pratensis</i>	14
<i>Poa pratensis</i>	3		<i>Trianthema portulacastrum</i>	5
<i>Poa trivialis</i>	3		<i>Trifolium agrarium</i>	8
<i>Polygonum argyrocoleon</i>	4		<i>Trifolium angulatum</i>	8
<i>Polygonum aviculare</i>	4		<i>Trifolium arvense</i>	8
<i>Polygonum convolvulus</i>	5		<i>Trifolium dubium</i>	8
<i>Polygonum hydropiper</i>	4		<i>Trifolium hybridum</i>	8
<i>Polygonum lapathifolium</i>	4		<i>Trifolium incarnatum</i>	8
<i>Polygonum pensylvanicum</i>	4		<i>Trifolium parviflorum</i>	8
<i>Polygonum persicaria</i>	5		<i>Trifolium pratense</i>	8
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<i>Potentilla monspeliensis</i>	8		<i>Trifolium repens</i>	8
<i>Prunella vulgaris</i>	12		<i>Trigonella foenum-graecum</i>	10
<i>Rainmannia lacinata</i>	11		<i>Trisetum flavescens</i>	2
<i>Ranunculus acris</i>	6		<i>Urtica dioica</i>	4
<i>Ranunculus parviflorus</i>	6		<i>Vaccaria pyramidata</i>	5
<i>Ranunculus repens</i>	6		<i>Valerianella dentata</i>	14
<i>Ranunculus sardous</i>	6		<i>Valerianella eriocarpa</i>	14
<i>Raphanus raphanistrum</i>	7		<i>Valerianella locusta</i>	14
<i>Reseda lutea</i>	8		<i>Verbascum thapsus</i>	13
<i>Rosa sp.</i>	8		<i>Verbena hastata</i>	12
<i>Rubus sp.</i>	8		<i>Verbena officinalis</i>	12
<i>Rudbeckia hirta</i>	15		<i>Verbena stricta</i>	12
<i>Rumex acetosa</i>	4		<i>Verbena urticaceifolia</i>	12
<i>Rumex acetosella</i>	4		<i>Veronica arvensis</i>	13
<i>Rumex conglomeratus</i>	4		<i>Veronica agrestis</i>	13
<i>Rumex crispus</i>	4		<i>Veronica peregrina</i>	13
<i>Rumex obtusifolius</i>	4		<i>Vicia angustifolia</i>	9
<i>Salsola pestifer</i>	5		<i>Vicia cracca</i>	9
<i>Salvia lanceaefolia</i>	12		<i>Vicia gracilis</i>	9
<i>Salvia sclarea</i>	12		<i>Vicia grandiflora</i>	9
<i>Salvia sp.</i>	12		<i>Vicia hirsuta</i>	9
<i>Salvia sylvestris</i>	12		<i>Vicia lutea</i>	9
<i>Sanguisorba minor</i>	8		<i>Vicia sativa</i>	9
<i>Sanguisorba sp.</i>	8		<i>Vicia sp.</i>	9
<i>Scabiosa arvensis</i>	14		<i>Vicia tetrasperma</i>	9
<i>Scirpus spp.</i>	4		<i>Vicia villosa</i>	9
<i>Scleranthus annuus</i>	6		<i>Viola tricolor</i>	11

PLATE 1\*

1. *Sorghum vulgare sudanense* (Piper) Hitchc. *Sudan grass*  
*Holcus sorghum sudanensis* Piper
2. *Sorghum halepense* (L.) Pers. *Johnson grass*  
*Holcus halepensis* L.
3. *Paspalum setaceum* Michx. *Slender paspalum*
4. *Paspalum laeve* Michx. *Field paspalum*
5. *Paspalum dilatatum* Poir. *Dallis grass*
6. *Digitaria sanguinalis* (L.) Scop. *Crabgrass*  
*Syntherisma sanguinalis* (L.) Dulac.
7. *Digitaria ischaemum* (Schreb.) Muhl. *Smooth crabgrass*  
*Syntherisma ischaemum* (Schreb.) Nash
8. *Panicum capillare* L. *Witchgrass*
9. *Panicum dichotomiflorum* Michx. *Fall panicum*
10. *Panicum miliaceum* L. *Proso; broomcorn millet; hog millet*
11. *Panicum virgatum* L. *Switchgrass*
12. *Panicum* sp. *No common name*  
*"Panicum lanuginosum"*
13. *Echinochloa crusgalli* (L.) Beauv. *Barnyard grass*
14. *Echinochloa crusgalli* frumentacea (Roxb.) Wight. *Japanese millet*  
*Echinochloa frumentacea* Link.
15. *Setaria lutescens* (Weig.) Hubb. *Yellow bristlegrass; yellow foxtail*  
*Chaetochloa lutescens* (Weig.) Stuntz
16. *Setaria viridis* (L.) Beauv. *Green bristlegrass; green foxtail*  
*Chaetochloa viridis* (L.) Scribn.
17. *Setaria italica* (L.) Beauv. var. *Hungarian millet*  
*Chaetochloa italica* (L.) Scribn.
18. *Setaria italica* (L.) Beauv. var. *Golden millet; common millet*  
*Chaetochloa italica* (L.) Scribn.
19. *Setaria italica* (L.) Beauv. var. *German millet*  
*Chaetochloa italica* (L.) Scribn.
20. *Cenchrus pauciflorus* Benth. *Field sandbur*
21. *Dactylis glomerata* L. *Orchard grass*
22. *Cynosurus cristatus* L. *Crested dogtail* \*Synonyms, or unapproved names, underscored
23. *Aristida dichotoma* Michx. *Poverty three-awn*
24. *Phleum pratense* L. *Timothy*

PLATE 1

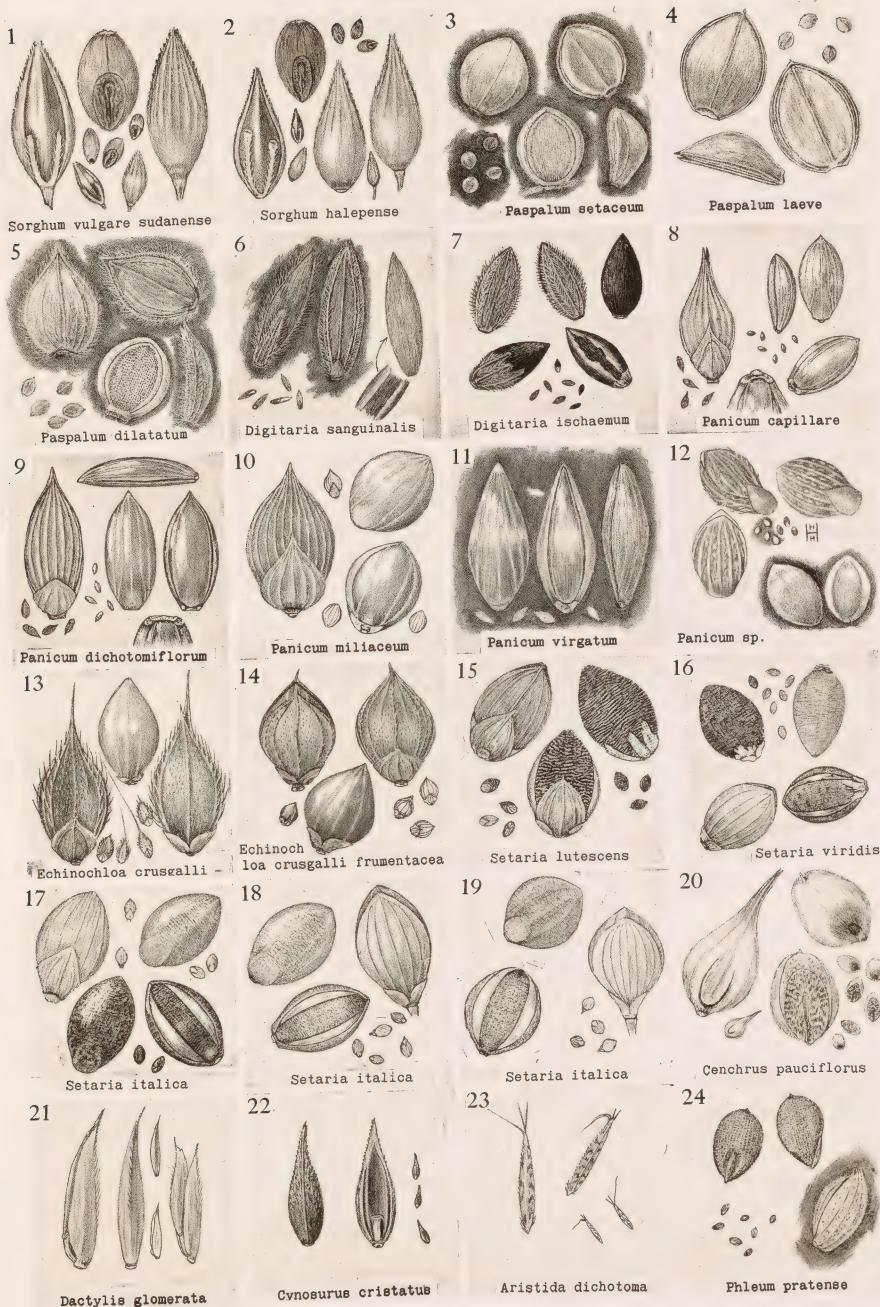


PLATE 2\*

1. *Alopecurus pratensis* L. Meadow foxtail
2. *Alopecurus geniculatus* L. Water foxtail
3. *Alopecurus myosuroides* Huds. Slender foxtail  
*Alopecurus agrestis* L.
4. *Sporobolus cryptandrus* (Torr.) Gray Sand dropseed
5. *Sporobolus clandestinus* (Spreng.) Hitchc. Scratch dropseed
6. *Sporobolus neglectus* Nash Puff dropseed
7. *Agrostis alba* L. Redtop
8. *Agrostis tenuis* Sibth. Colonial bent; Rhode Island bent; brown top  
*Agrostis vulgaris* With.
9. *Agrostis canina* L. Velvet bent
10. *Agrostis spica-venti* L. Windgrass  
*Apera spica-venti* Beauv.
11. *Corynephorus canescens* (L.) Beauv. Club-awn  
*Weingartneria canescens* (L.) Bernh.
12. *Holcus lanatus* L. Velvet grass  
*Notholcus lanatus* (L.) Nash
13. *Holcus mollis* L. Softgrass  
*Notholcus mollis* (L.) Hitchc.
14. *Aira caryophyllea* L. Silver hairgrass
15. *Deschampsia flexuosa* (L.) Trin. Crinkled hairgrass
16. *Deschampsia caespitosa* (L.) Beauv. Tufted hairgrass
17. *Trisetum flavescens* (L.) Beauv. Yellow trisetum  
*Avena flavescens* L.
18. *Avena fatua* L. Wild oat
19. *Arrhenatherum elatius* (L.) Mert. & Koch Tall oatgrass
20. *Danthonia spicata* (L.) Beauv. Poverty oatgrass
21. *Cynodon dactylon* (L.) Pers. Bermuda grass  
*Capriola dactylon* (L.) Kuntze
22. *Molinia coerulea* (L.) Moench. Lavender grass
23. *Eragrostis cilianensis* (All.) Link Stinkgrass
24. *Distichlis stricta* (Torr.) Rydb. Desert saltgrass

\*Synonyms, or unapproved names, underscored

PLATE 2

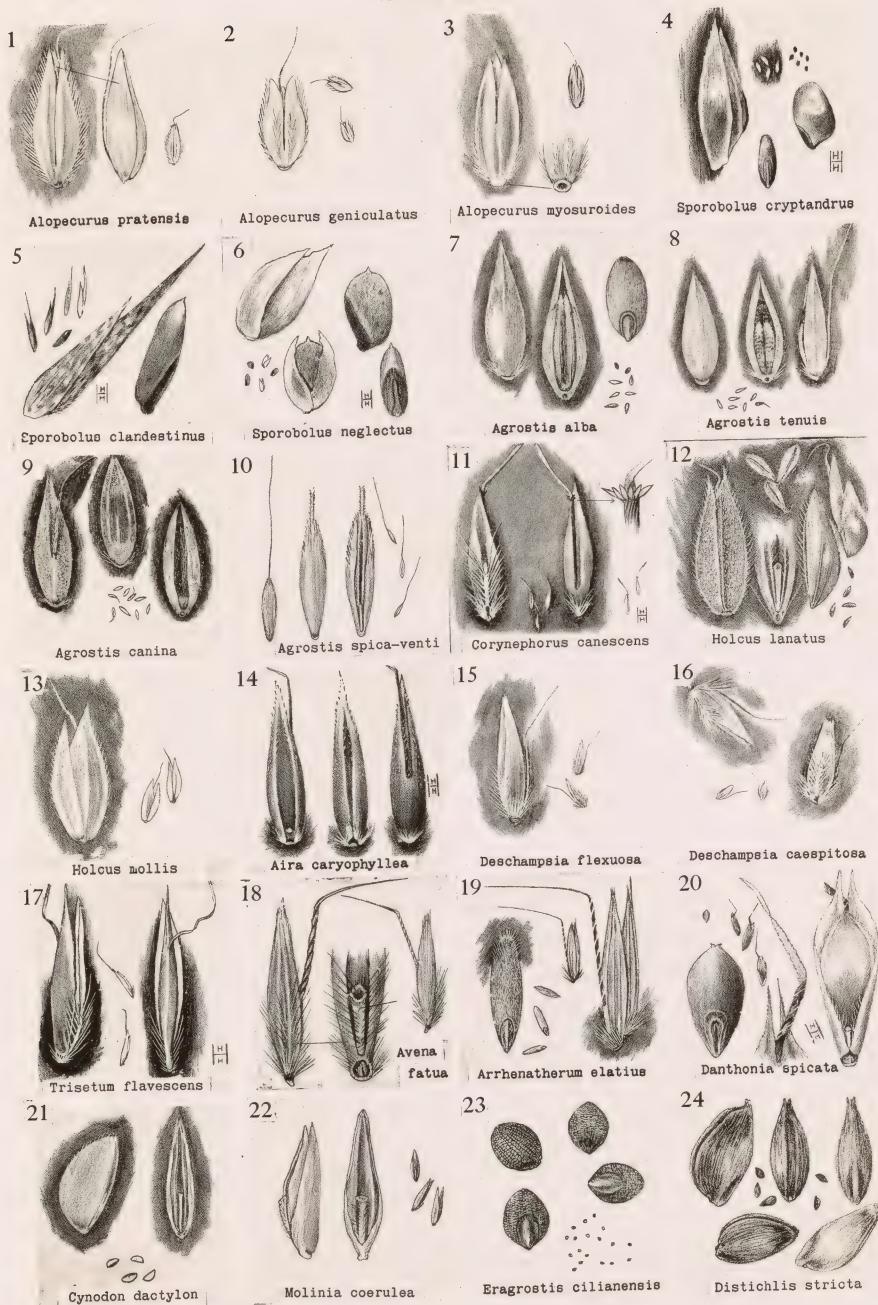


PLATE 3\*

1. *Anthoxanthum odoratum* L. Sweet vernalgrass
2. *Anthoxanthum aristatum* Boiss. Annual vernalgrass  
*Anthoxanthum puellii* Lecoq & Lamotte
3. *Poa annua* L. Annual bluegrass
4. *Poa compressa* L. Canada bluegrass
5. *Poa pratensis* L. Kentucky bluegrass
6. *Poa trivialis* L. Rough bluegrass; rough-stalked meadow grass
7. *Poa nemoralis* L. Wood bluegrass; wood meadow grass
8. *Poa bulbosa* L. Bulbous bluegrass
9. *Glyceria striata* (Lam.) Hitchc. Fowl mannagrass  
*Panicularia nervata* (Willd.) Kuntze
10. *Glyceria grandis* S. Wats. American mannagrass  
*Panicularia americana* (Torr.) MacM.
11. *Festuca myuros* L. Rattail fescue
12. *Festuca elatior* L. Meadow fescue  
*Festuca elatior pratensis* (Huds.) A. Gray
13. *Festuca elatior arundinacea* (Schreb.) Wimm. Reed fescue  
*Festuca arundinacea* Schreb.
14. *Bromus inermis* Leyss. Smooth brome; awnless brome grass
15. *Bromus tectorum* L. Downy chess
16. *Bromus mollis* L. Soft chess  
"Bromus hordeaceus"
17. *Bromus secalinus* L. Chess; cheat
18. *Bromus racemosus* L. Smooth chess
19. *Lolium perenne* L. Perennial ryegrass; English ryegrass
20. *Lolium multiflorum* Lam. Italian ryegrass
21. *Lolium temulentum* L. Darnel
22. *Agropyron repens* (L.) Beauv. Quackgrass
23. *Agropyron pauciflorum* (Schwein.) Hitchc. Slender wheatgrass  
*Agropyron tenerum* Vasey
24. *Agropyron smithii* Rydb. Bluestem; western wheat grass

\*Synonyms, or unapproved names, underscored

PLATE 3

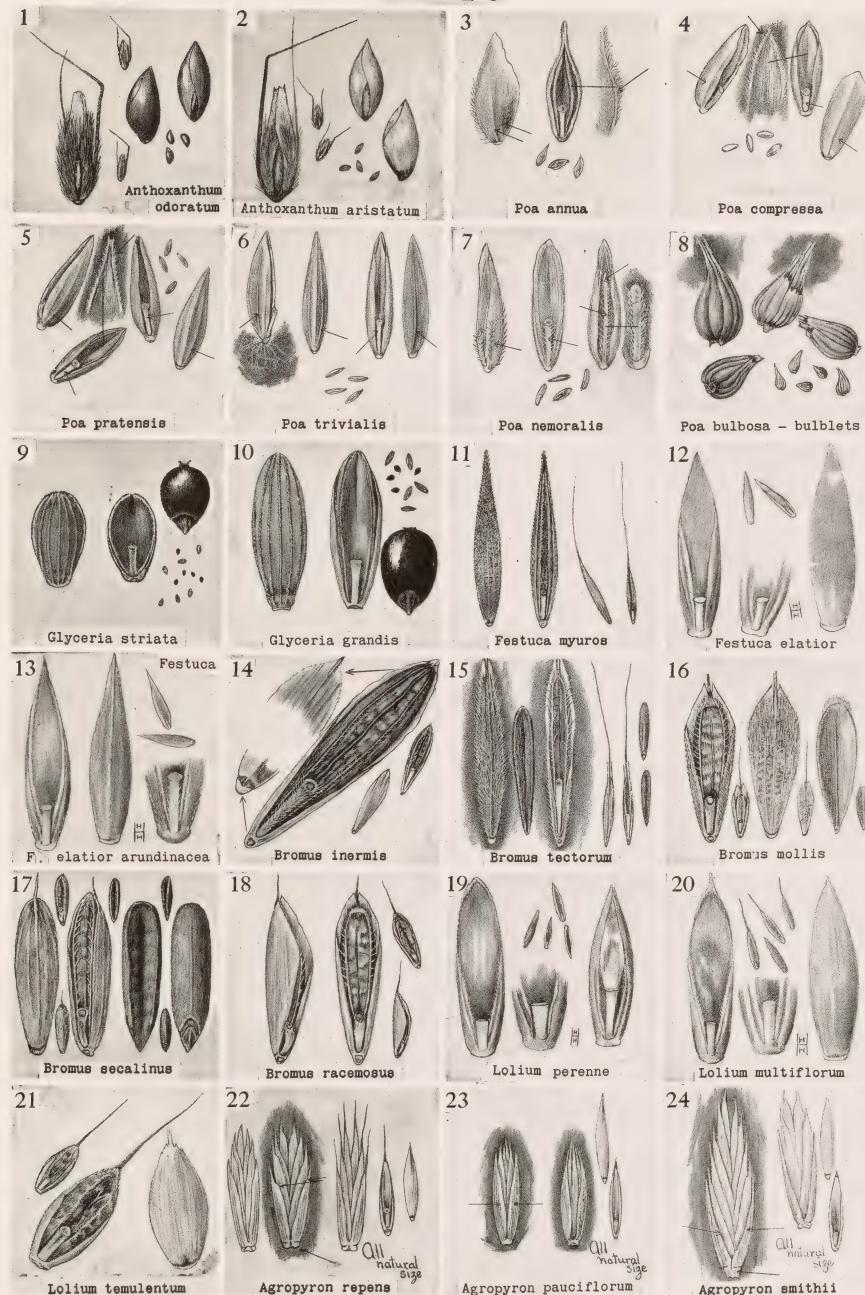


PLATE 4\*

1. *Cyperus rotundus* L. Nutgrass
2. *Kyllinga* sp. No common name
3. *Eleocharis tenuis* (Willd.) Schult. Slender spikerush
4. *Eleocharis obtusa* (Willd.) Schult. Blunt spikerush
5. *Fimbristylis diphylla* (Retz.) Vahl No common name  
*Fimbristylis laxa* Vahl
6. *Fimbristylis autumnalis* (L.) Roem. & Schult. No common name
7. *Scirpus* sp. Bulrush
8. *Scirpus* sp. Bulrush
9. *Carex* spp. Sedge
10. *Juncus tenuis* Willd. Path rush
11. *Juncoides campestre* (L.) Kuntze Field woodrush  
*Luzula campestris* (L.) DC.
12. *Juncoides nemorosum* (Pollich) Kuntze Forest woodrush  
*Luzula nemorosa* (Pollich) E. Mey.
13. *Allium vineale* L. Wild garlic
14. *Urtica dioica* L. Big nettle; stinging nettle
15. *Rumex crispus* L. Curly dock
16. *Rumex obtusifolius* L. Bitter dock
17. *Rumex conglomeratus* Murr. Green dock
18. *Rumex acetosa* L. Garden sorrel; sour dock
19. *Rumex acetosella* L. Sheep sorrel
20. *Polygonum argyrocoleon* Steudel Silversheath knotweed
21. *Polygonum aviculare* L. Knotweed
22. *Polygonum pensylvanicum* L. Bigseed ladysthumb
23. *Polygonum lapathifolium* L. Pale ladysthumb
24. *Polygonum hydropiper* L. Smartweed

\*Synonyms, or unapproved names, underscored

PLATE 4

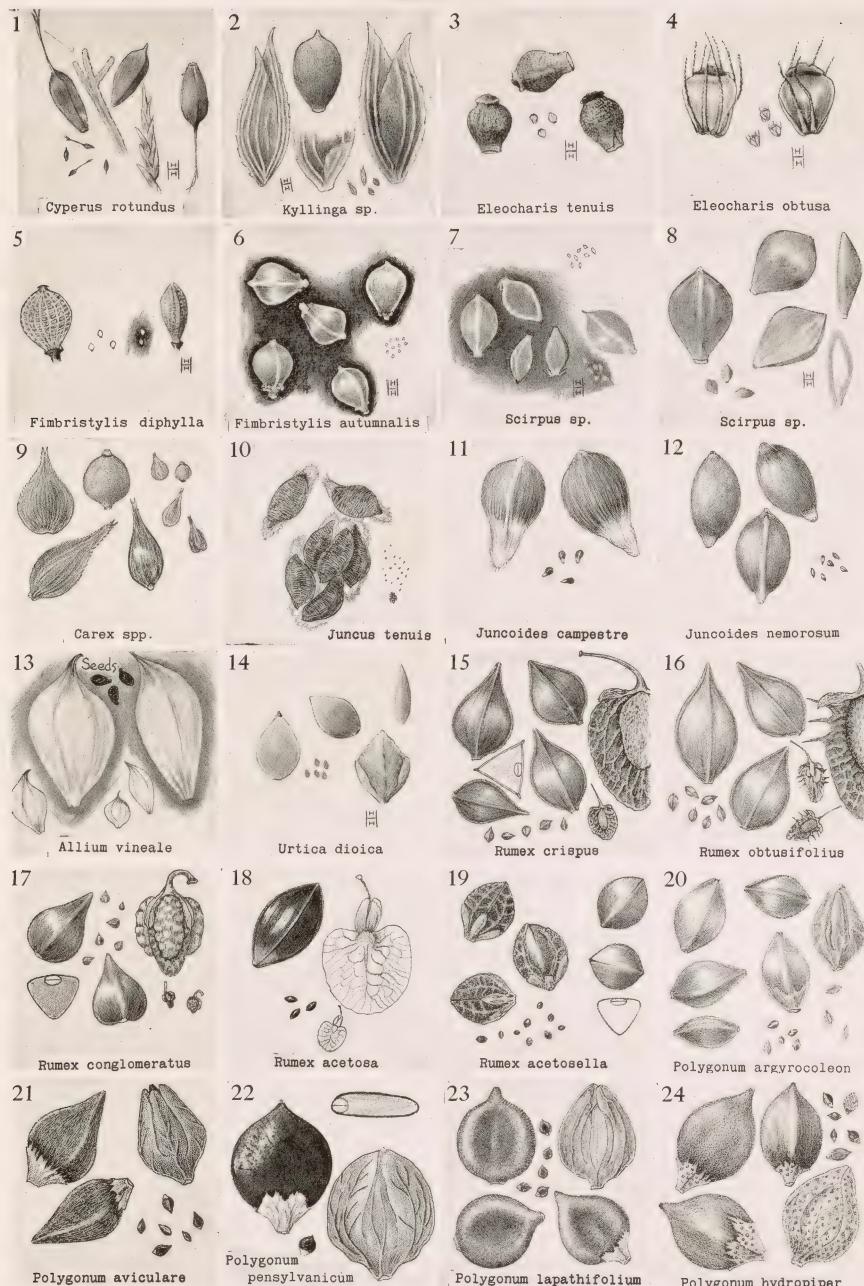


PLATE 5\*

1. *Polygonum persicaria* L. Ladysthumb
2. *Polygonum convolvulus* L. Cornbind; black bindweed
3. *Chenopodium album* L. Lambsquarters
4. *Chenopodium berlandieri* Moq. Pitseed goosefoot
5. *Chenopodium leptophyllum* Nutt. Narrowleaf goosefoot
6. *Chenopodium murale* L. Nettleleaf goosefoot
7. *Atriplex hastata* L. Fat-hen; saltbush
8. *Atriplex truncata* (Torr.) A. Gray Wedgescale orach; saltbush
9. *Dondia depressa* Seepweed  
Suaeda sp.
10. *Salsola pestifer* A. Nels. Russian-thistle
11. *Axyris amaranthoides* L. Russian-pigweed
12. *Bassia hyssopifolia* (Pall.) Kuntze Fivehook bassia
13. *Amaranthus retroflexus* L. Redroot amaranth; rough pigweed  
*Amaranthus graecizans* L. Tumble amaranth
14. *Amaranthus blitoides* S. Wats. Spreading amaranth
15. *Trianthema portulacastrum* L. Horse-purslane
16. *Agrostemma githago* L. Corncockle
17. *Silene latifolia* (Mill.) Britten & Rendle. Bladder campion
18. *Silene dichotoma* Ehrh. Clover catchfly; forked catchfly
19. *Silene antirrhina* L. Sleepy catchfly
20. *Silene noctiflora* L. Nightblooming catchfly
21. *Silene anglica* L. English catchfly
22. *Lychnis alba* Mill. Evening campion; white campion
23. *Vaccaria pyramidata* Moench Cowcockle  
Saponaria vaccaria L.
24. *Dianthus armeria* L. Deptford pink

\*Synonyms, or unapproved names, underscored

PLATE 5

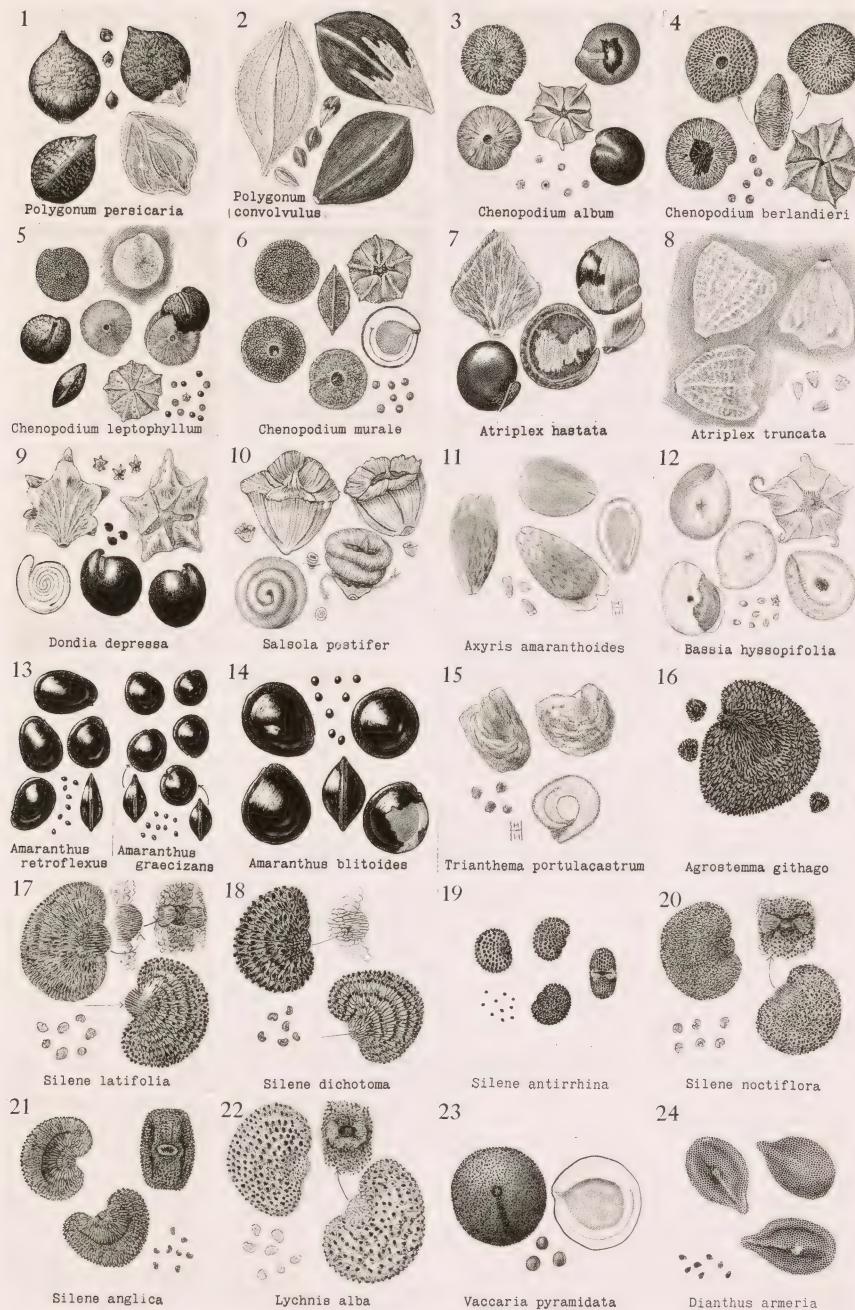


PLATE 6\*

1. *Alsine media* L. Chickweed  
*Stellaria media* (L.) Cyrill.
2. *Alsine graminea* (L.) Britton Little starwort  
*Stellaria graminea* L.
3. *Cerastium vulgatum* L. Big mouse-ear; mouse-ear chickweed
4. *Arenaria serpyllifolia* L. Thymeleaf sandwort
5. *Spergula arvensis* L. Corn spurry
6. *Spergula pentandra* L. Wingseed spurry
7. *Scleranthus annuus* L. Knawel
8. *Delphinium consolida* L. Field larkspur
9. *Ranunculus acris* L. Tall buttercup
10. *Ranunculus repens* L. Creeping buttercup
11. *Ranunculus sardous* Grantz Wartseed buttercup  
*Ranunculus parvulus* L.
12. *Ranunculus parviflorus* L. Sticktight crowfoot
13. *Thalictrum* sp. Meadowrue
14. *Papaver somniferum* L. Opium poppy
15. *Papaver dubium* L. Longpod poppy  
  
*Papaver rhoeas* L. Corn poppy
16. *Papaver* sp. Poppy
17. *Papaver* sp. Poppy
18. *Glaucium corniculatum* (L.) Curtis Sea-poppy
19. *Lepidium virginicum* L. American peppergrass
20. *Lepidium densiflorum* Schrad. Prairie peppergrass  
"*Lepidium apetalum*"
21. *Lepidium campestre* (L.) R. Br. Field peppergrass
22. *Lepidium draba* L. Perennial peppergrass; hoary cress
23. *Lepidium repens* (Schrenk) Boiss. Lens peppergrass
24. *Hymenophyllum pubescens* C. A. Mey. Ballcress

\*Synonyms, or unapproved names, underscored

PLATE 6

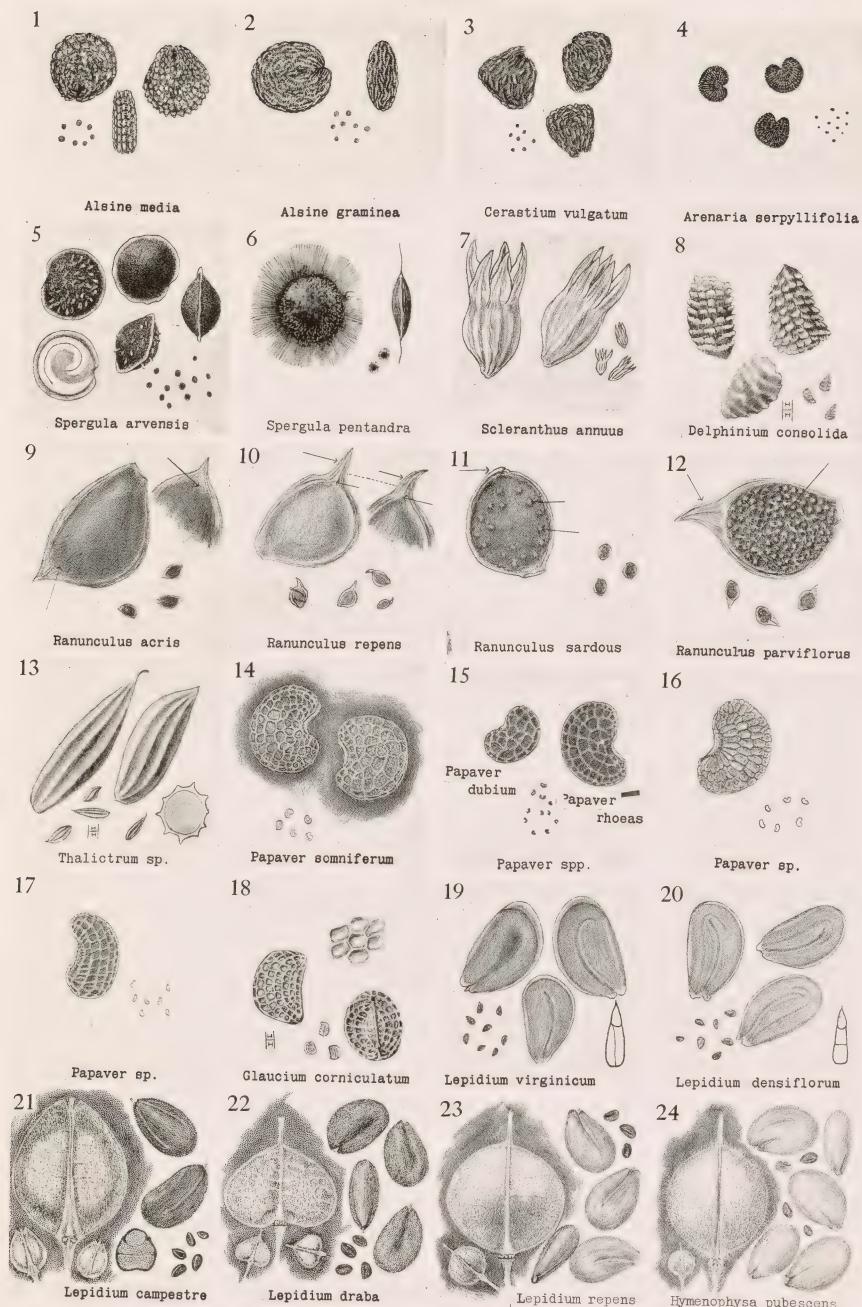


PLATE 7\*

1. *Thlaspi arvense* L. Penny-cress
2. *Norta altissima* (L.) Britton Tumblemustard  
*Sisymbrium altissimum* L.
3. *Erysimum officinale* L. Hedge-mustard  
*Sisymbrium officinale* (L.) Scop.
4. *Brassica nigra* (L.) Koch Black mustard
5. *Brassica juncea* (L.) Coss. India mustard
6. *Brassica napus* L. Winter rape
7. *Brassica napus* L. Oilseed rape
8. *Brassica rapa* L. var. Turnip rape
9. *Brassica campestris* L. Bird rape
10. *Brassica arvensis* (L.) Kuntze Charlock  
*Sinapis arvensis* L.
11. *Raphanus raphanistrum* L. Wild radish
12. *Campe barbarea* (L.) W. F. Wight Bitter wintercress  
*Barbarea vulgaris* R. Br.
13. *Campe verna* (Mill.) Heller Early wintercress  
*Barbarea verna* (Mill.) Asch.
14. *Bursa bursa-pastoris* (L.) Britton Shepherds-purse  
*Capsella bursa-pastoris* (L.) Medic.
15. *Camelina sativa* (L.) Grantz Bigseed false-flax
16. *Camelina dentata* (Willd.) Pers. Flatseed false-flax
17. *Camelina microcarpa* Andr. Littleseed false-flax
18. *Neslia paniculata* (L.) Desv. Ball-mustard
19. *Arabis glabra* (L.) Bernh. Tower-mustard
20. *Cheirinia cheiranthoides* (L.) Link Treacle-mustard  
*Erysimum cheiranthoides* L.
21. *Alyssum alyssoides* L. Pale alyssum
22. *Berteroa incana* (L.) DC. Hoary alyssum
23. *Eruca sativa* Mill. Salad-rocket
24. *Conringia orientalis* (L.) Dumort. Hares-ear-mustard

\*Synonyms, or unapproved names, underscored

PLATE 7

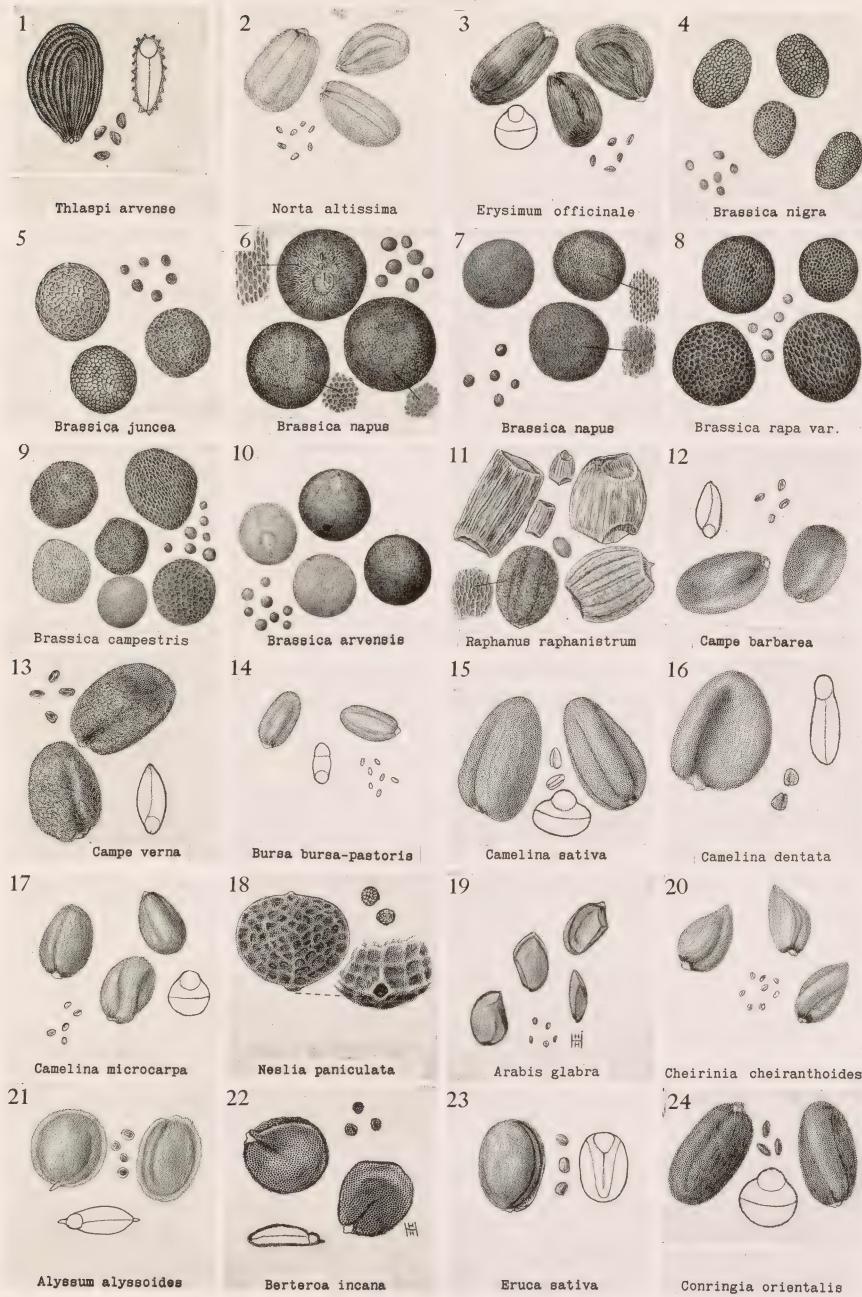


PLATE 8\*

1. *Reseda lutea* L. Base-rocket
2. *Rubus* sp. Blackberry
3. *Potentilla monspeliensis* L. Strawberryweed
4. *Potentilla canadensis* L. Oldfield cinquefoil
5. *Sanguisorba minor* Scop. Little burnet
6. *Sanguisorba* sp. Burnet
7. *Geum* sp. Avens
8. *Rosa* sp. Rose
9. *Medicago sativa* L. Alfalfa
10. *Medicago lupulina* L. Black medick; yellow trefoil
11. *Medicago hispida* Gaertn. California bur-clover  
"Medicago hispida denticulata"
12. *Medicago arabica* (L.) Huds. Spotted bur-clover
13. *Trifolium repens* L. White clover
14. *Trifolium pratense* L. Red clover
15. *Trifolium hybridum* L. Alsike clover
16. *Trifolium parviflorum* Ehrh. Teasel clover
17. *Trifolium angulatum* Waldst. & Kit. Crooked clover
18. *Trifolium incarnatum* L. Crimson clover
19. *Trifolium arvense* L. Rabbitfoot clover
20. *Trifolium dubium* Sibth. Suckling clover
21. *Trifolium procumbens* L. Mignonette clover
22. *Trifolium agrarium* L. Hop clover
23. *Lotus corniculatus* L. Birdsfoot trefoil
24. *Lotus americanus* (Nutt.) Bisch. Deervetch  
*Hosackia americana* (Nutt.) Piper

\*Synonyms, or unapproved names, underscored

PLATE 8

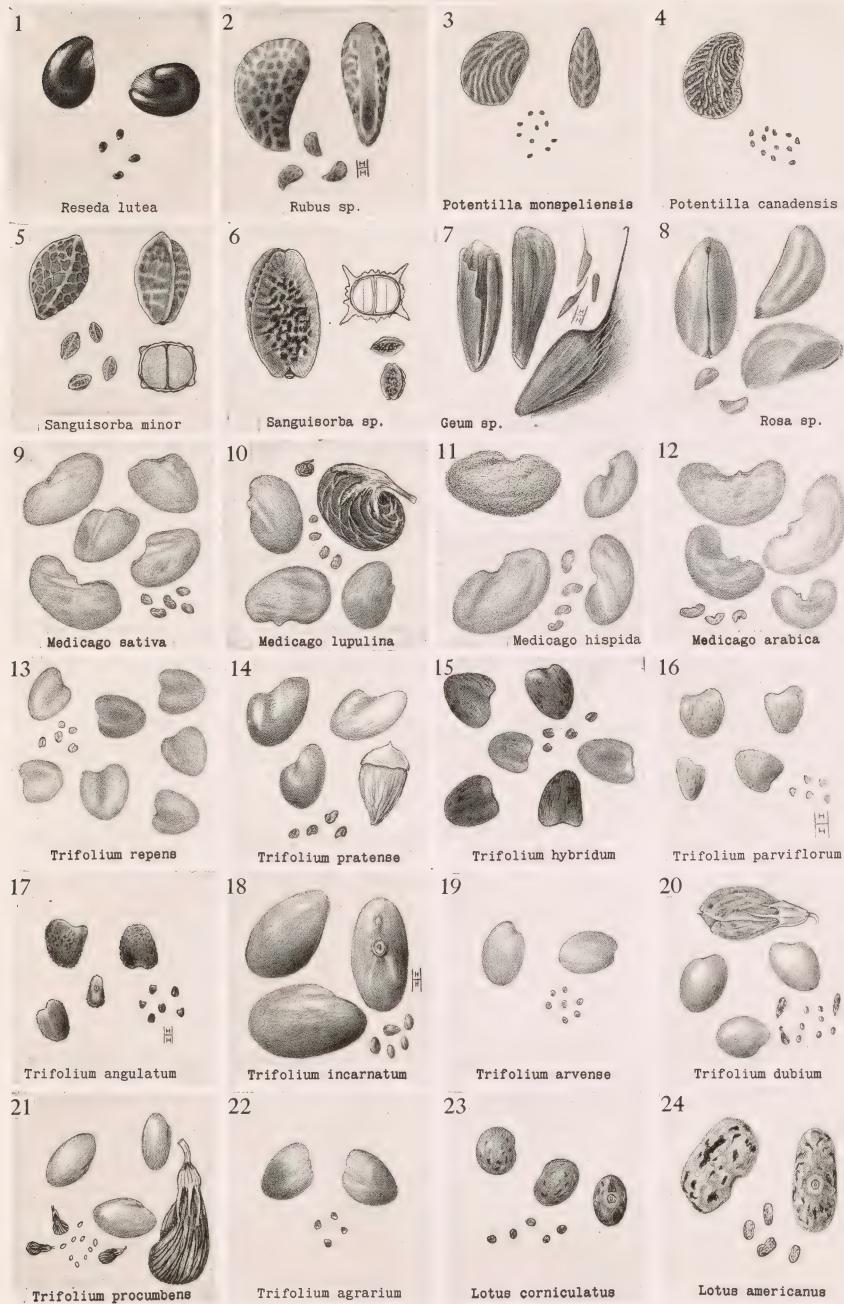


PLATE 9\*

1. *Melilotus alba* Desr. White sweetclover
2. *Melilotus officinalis* (L.) Lam. Yellow sweetclover; biennial yellow sweet clover
3. *Melilotus indica* (L.) All. Sourclover; annual yellow sweet clover
4. *Anthyllis vulneraria* L. Kidneyvetch
5. *Coronilla varia* L. Crownvetch
6. *Lespedeza striata* (Thunb.) Hook. & Arn. Common lespedeza
7. *Vicia villosa* Roth Hairy vetch
8. *Vicia angustifolia* (L.) Reichenb. Narrowleaf vetch
9. *Vicia angustifolia* (L.) Reichenb. Narrowleaf vetch
10. *Vicia sativa* L. Common vetch
11. *Vicia sativa* L. Common vetch
12. *Vicia sativa* L. Pearl vetch
13. *Vicia* sp. No common name
14. *Vicia lutea* L. Yellow vetch
15. *Vicia hirsuta* (L.) S. F. Gray Tiny vetch
16. *Vicia grandiflora* Scop. No common name
17. *Vicia tetrasperma* (L.) Moench Fourseed vetch
18. *Vicia cracca* L. Bird vetch
19. *Vicia gracilis* Loisel. Slender vetch
20. *Lathyrus tuberosus* L. Groundnut pea
21. *Lathyrus hirsutus* L. Rough pea
22. *Lathyrus aphaca* L. Yellow pea
23. *Pisum sativum arvense* (L.) Poir. Field pea  
*Pisum arvense* L.
24. *Pisum sativum* L. Garden pea

\*Synonyms, or unapproved names, underscored

PLATE 9

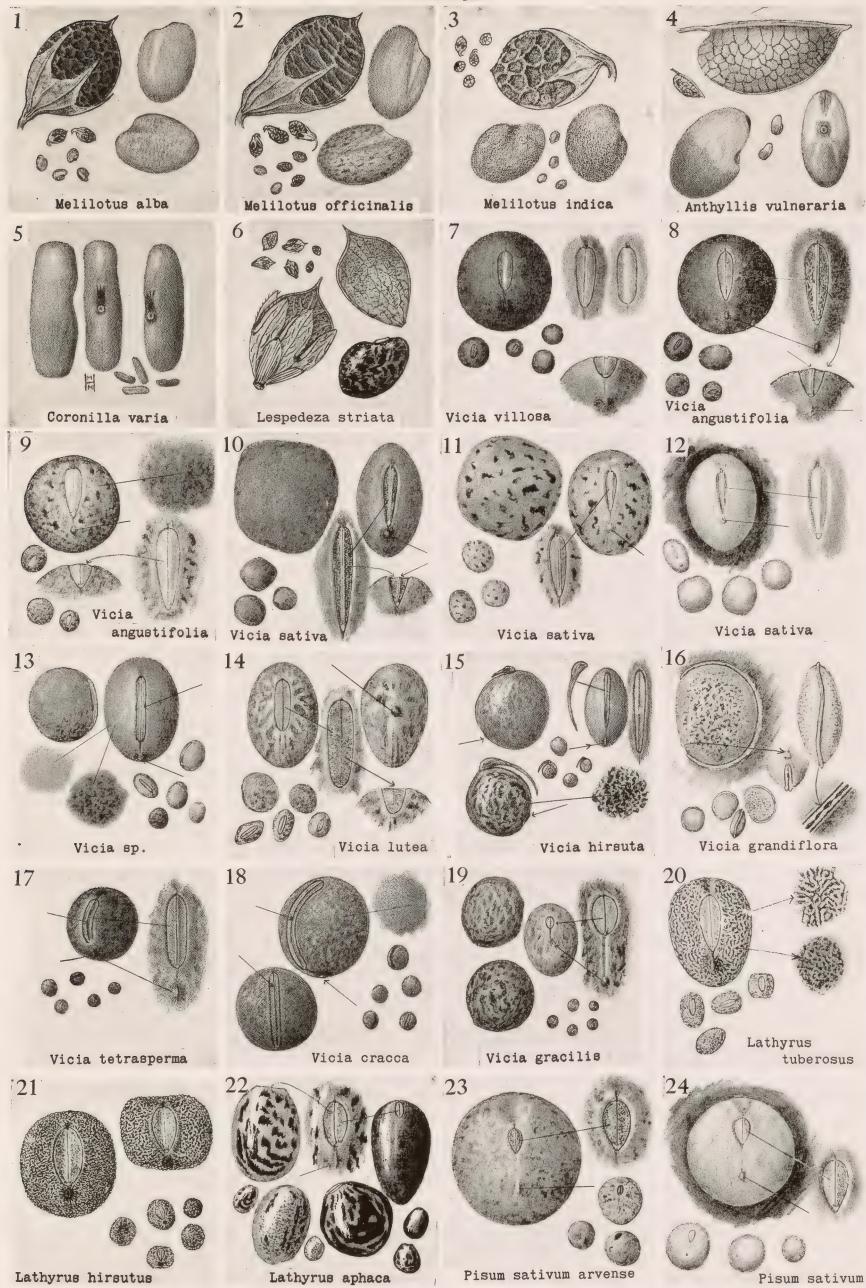


PLATE 10\*

1. *Trigonella foenum-graecum* L. Fenugreek
2. *Onobrychis viciaefolia* Scop. Sainfoin  
*Onobrychis vulgaris* Gueldenst.
3. *Ornithopus sativus* Brot. Serradella
4. *Swainsona salsula* (Pall.) Taub. No common name
5. *Alhagi pseudalhagi* (Bieb.) Desv. Camelthorn  
*Alhagi camelorum* Fisch.
6. *Oxalis stricta* L. Yellow Oxalis
7. *Linum usitatissimum* L. Flax
8. *Linum virginianum* L. Woodland flax  
*Cathartolinum virginianum* (L.) Reichenb.
9. *Geranium dissectum* L. Cutleaf cranesbill
10. *Geranium carolinianum* L. Carolina cranesbill
11. *Geranium columbinum* L. Longstalk cranesbill
12. *Geranium molle* L. Dovefoot cranesbill
13. *Geranium pusillum* L. Small cranesbill
14. *Erodium cicutarium* (L.) L'Her. Alfileria
15. *Acalypha virginica* L. Three-seed; three-seeded mercury
16. *Euphorbia preslii* Guss. Nodding spurge  
*Chamaesyce preslii* (Guss.) Arth.
17. *Euphorbia maculata* L. Spotted spurge  
*Chamaesyce maculata* (L.) Small
18. *Sida spinosa* L. Spinemallow
19. *Abutilon theophrasti* Medic. Velvetleaf
20. *Malva rotundifolia* L. Running mallow; cheeses
21. *Malva parviflora* L. Little mallow
22. *Althaea hirsuta* L. No common name
23. *Hibiscus trionum* L. Flower-of-an-hour
24. *Hypericum perforatum* L. St.Johnswort

\*Synonyms, or unapproved names, underscored

PLATE 10

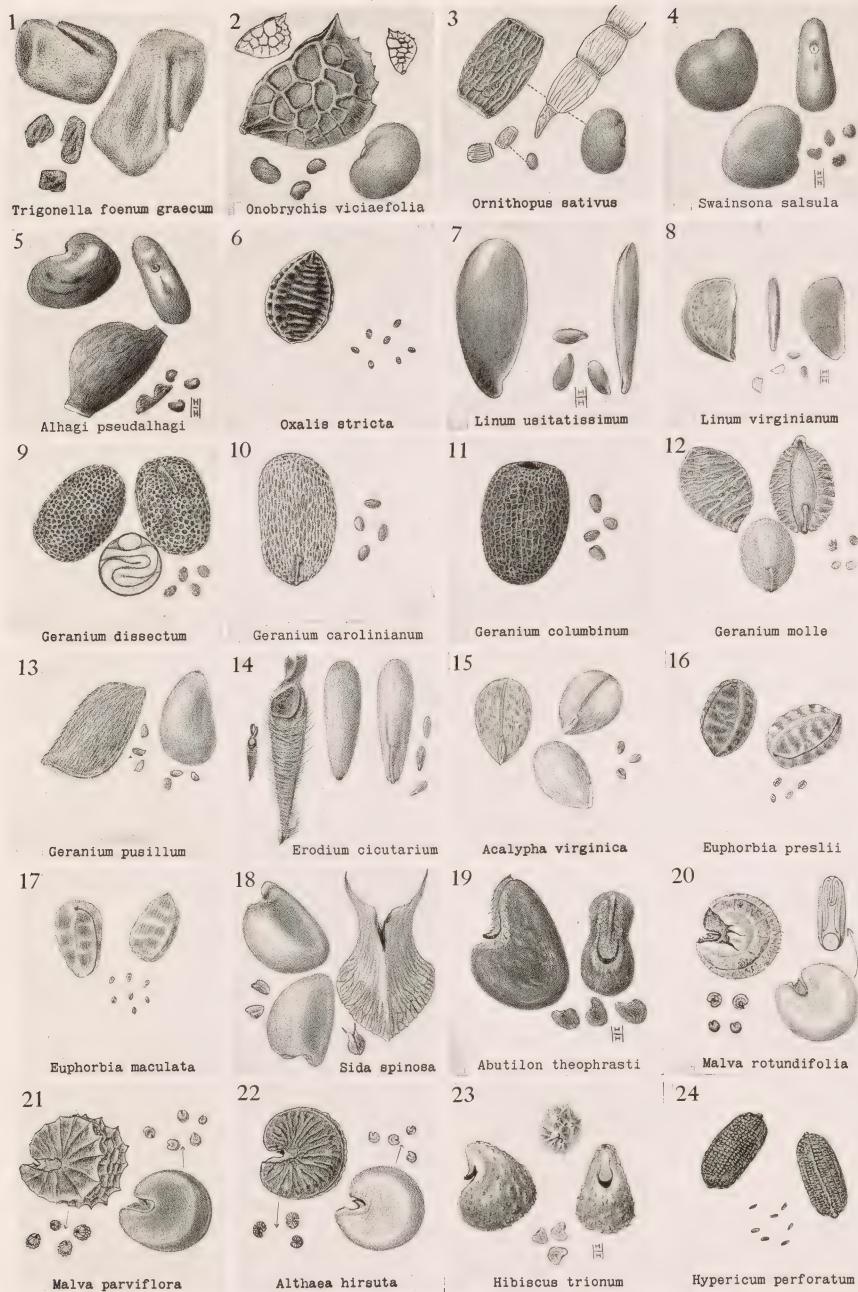


PLATE 11\*

1. *Viola tricolor* L. Pansy
2. *Lythrum hyssopifolia* L. Hyssop loosestrife
3. *Ludwigia alternifolia* L. Seedbox
4. *Epilobium paniculatum* Nutt. Panicle willow-weed
5. *Epilobium* sp. Willow-weed
6. *Oenothera biennis* L. Evening-primrose
7. *Raimannia laciniata* (Hill) Rose *Cutleaf evening-primrose*  
*Oenothera laciniata* Hill
8. *Conium maculatum* L. Poisonhemlock
9. *Conium* sp. No common name
10. *Torilis nodosa* (L.) Gaertn. Hedgeparsley  
*Caucalis nodosa* Scop.
11. *Daucus carota* L. Wild carrot
12. *Ammi visnaga* (L.) Lam. Toothpickplant
13. *Anthriscus sylvestris* (L.) Hoffm. Wild chervil
14. *Anagallis arvensis* L. Red pimpernel
15. *Convolvulus arvensis* L. Bindweed
16. *Ipomoea purpurea* (L.) Roth Morning-glory
17. *Cuscuta epithymum* Weihe Flax dodder
18. *Cuscuta epithymum* Murr. Clover dodder
19. *Cuscuta planiflora* Tenore Littleseed dodder
20. *Cuscuta pentagona* Engelm. Field dodder  
*Cuscuta arvensis* Breyr.
21. *Cuscuta racemosa chiliana* Engelm. Chilean dodder
22. *Cuscuta indecora* Chois. Bigseed dodder
23. *Lappula echinata* (L.) Gilib European stickseed
24. *Lappula occidentalis* (S.Wats.) Greene Western stickseed  
"*Lappula texana*"

\*Synonyms, or unapproved names, underscored

PLATE 11

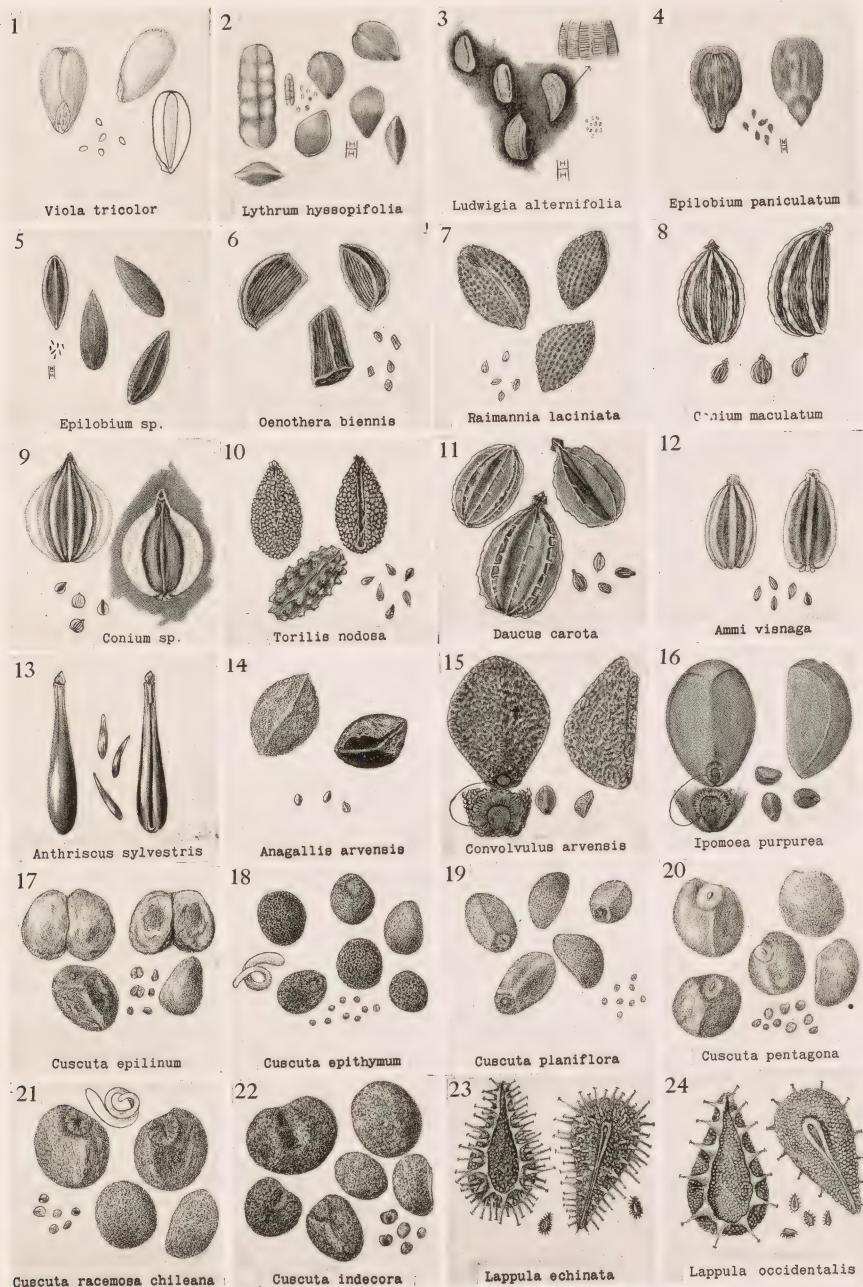


PLATE 12\*

1. *Myosotis arvensis* (L.) Hill Forget-me-not
2. *Lithospermum arvense* L. Field gromwell
3. *Echium vulgare* L. Blueweed
4. *Verbena officinalis* L. Vervain
5. *Verbena urticifolia* L. White vervain
6. *Verbena hastata* L. Blue vervain
7. *Verbena stricta* Vent. Hoary vervain
8. *Ajuga chamaepitys* (L.) Schreb. Ground bugle
9. *Teucrium canadense* L. American germander
10. *Marrubium vulgare* L. White hoarhound
11. *Nepeta cataria* L. Catnip
12. *Moldavica parviflora* (Nutt.) Britton American dragonhead  
*Dracocephalum parviflorum* Nutt.
13. *Prunella vulgaris* L. Selfheal
14. *Galeopsis tetrahit* L. Hempnettle
15. *Galeopsis ladanum* L. Red hempnettle
16. *Leonurus cardiaca* L. Motherwort
17. *Lamium amplexicaule* L. Henbit
18. *Stachys annua* L. Field betony
19. *Stachys palustris* L. Marsh betony
20. *Salvia sclarea* L. Clary
21. *Salvia lanceolata* Poir. Lanceleaf sage
22. *Salvia sylvestris* L. Pasture sage
23. *Salvia* sp. Sage
24. *Hedeoma pulegioides* (L.) Pers. American pennyroyal

\*Synonyms, or unapproved names, underscored

PLATE 12

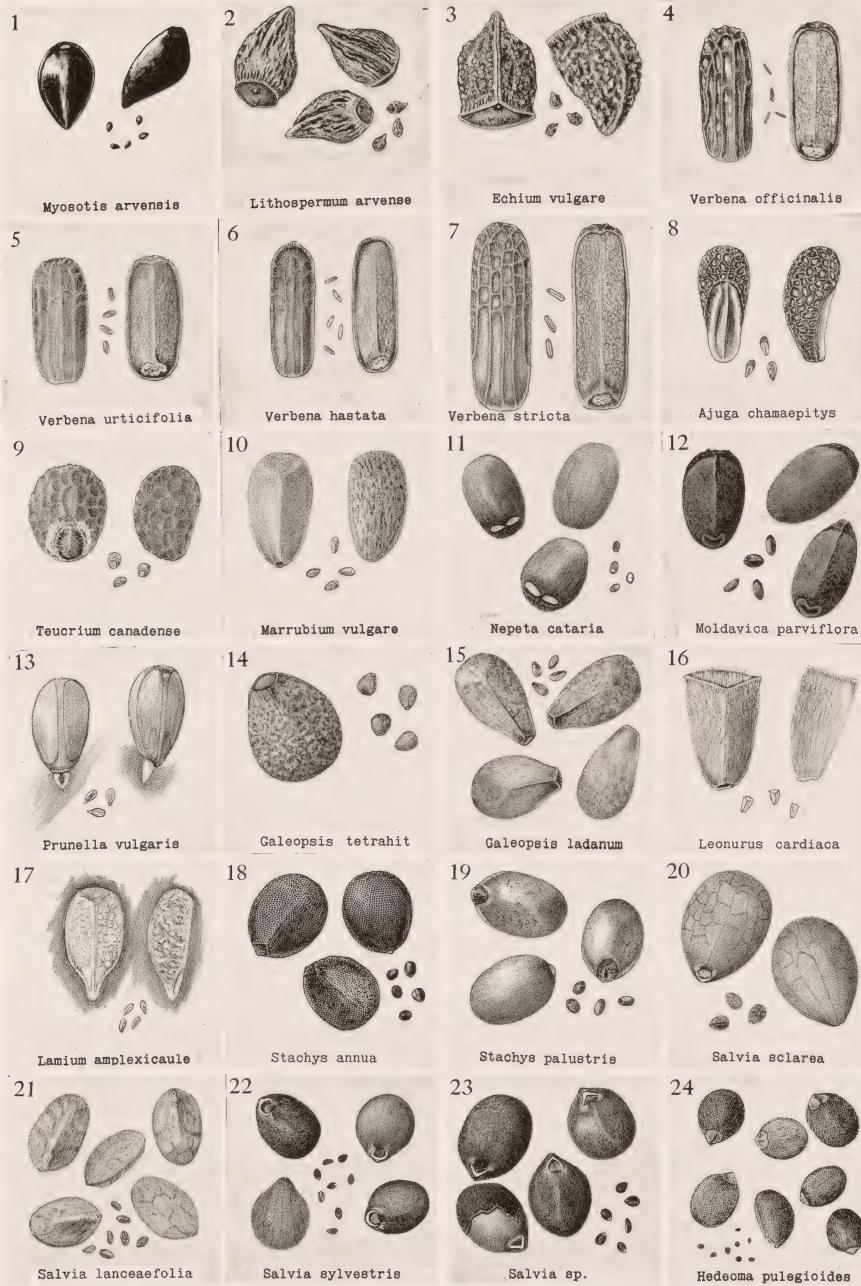


PLATE 13\*

1. *Clinopodium acinos* (L.) Kuntze      Basil-thyme  
*Satureja acinos* (L.) Scheele
2. *Koellia* sp.      Mountain-mint  
*Pycnanthemum* sp.
3. *Lycopus virginicus* L.      American bugleweed
4. *Mentha arvensis* L.      Field mint
5. *Hyoscyamus niger* L.      Henbane
6. *Solanum nigrum* L.      Black nightshade
7. *Solanum carolinense* L.      Horsenettle
8. *Solanum rostratum* Dunal      Buffalo-bur
9. *Verbascum thapsus* L.      Flannel mullein
10. *Scrophularia marilandica* L.      American figwort
11. *Veronica arvensis* L.      Corn speedwell
12. *Veronica peregrina* L.      Purslane speedwell
13. *Veronica agrestis* L.      Field speedwell
14. *Kickxia spuria* (L.) Dumort.      Roundleaf toadflax  
*Linaria spuria* (L.) Mill.
15. *Euphrasia* sp.      Eyebright
16. *Plantago rugelii* Decaisne      Blackseed plantain
17. *Plantago major* L.      Rippleseed plantain
18. *Plantago lanceolata* L.      Buckhorn plantain
19. *Plantago aristata* Michx.      Bottlebrush plantain
20. *Plantago virginica* L.      Paleseed plantain
21. *Houstonia purpurea* L.      Field houstonia
22. *Diodia teres* Walt.      Rough buttonweed
23. *Galium aparine* L.      Catchweed
24. *Sherardia arvensis* L.      Fieldmadder

\*Synonyms, or unapproved names, underscored

PLATE 13

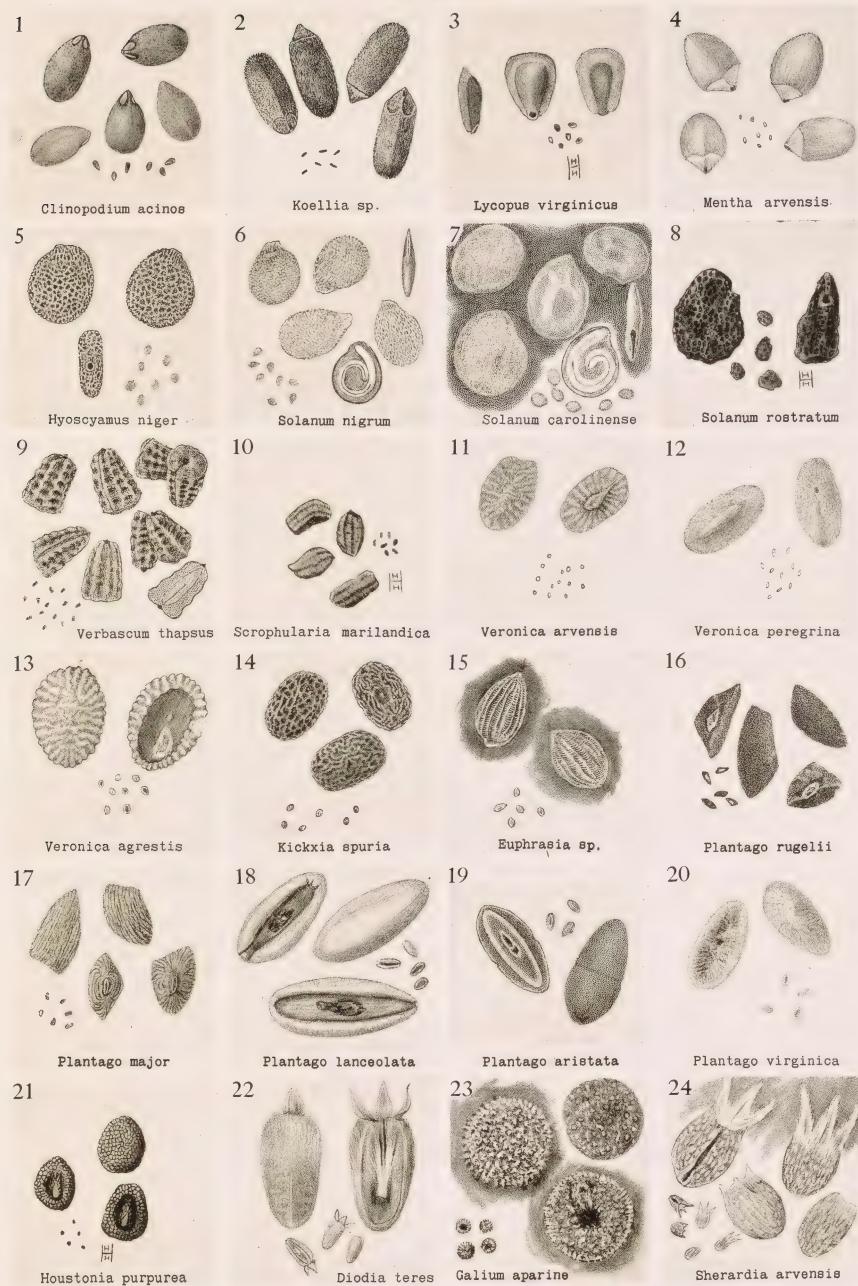


PLATE 14\*

1. *Valerianella dentata* Pall. Toothed cornsalad
2. *Valerianella locusta* (L.) Betcher Cornsalad
3. *Valerianella eriocarpa* Desv. Italian cornsalad
4. *Dipsacus sylvestris* L. Wild teasel
5. *Scabiosa arvensis* L. Field scabiosa
6. *Specularia perfoliata* (L.) A. DC. Venus lookingglass
7. *Lobelia inflata* L. Indian-tobacco
8. *Cichorium intybus* L. Chicory
9. *Lapsana communis* L. Nipplewort
10. *Arnoseris minima* (L.) Dumort. Lamb-succory
11. *Hypochaeris radicata* L. Spotted cats-ear
12. *Apargia autumnalis* (L.) Hoffm. Fall-dandelion  
*Leontodon autumnalis* L.
13. *Apargia nudicaulis* (L.) Britton Rough hawkbit  
*Leontodon nudicaulis* (L.) Banks
14. *Leontodon taraxacum* L. Dandelion  
*Taraxacum officinale* Weber.
15. *Picris hieracioides* L. Hawkweed picris
16. *Picris echioptera* L. Oxtongue
17. *Tragopogon pratensis* L. Buckbeard
18. *Sonchus asper* (L.) Hill Prickly sowthistle
19. *Sonchus oleraceus* L. Common sowthistle
20. *Sonchus arvensis* L. Perennial sowthistle
21. *Lactuca scariola integrata* Gren. & Godr. Prickly lettuce  
*Lactuca integrata* (Gren. & Godr.) A. Nels.
22. *Lactuca canadensis* L. Tall lettuce
23. *Crepis capillaris* (L.) Wallr. Smooth hawksbeard
24. *Hieracium aurantiacum* L. Orange hawkweed

\* Synonyms, or unapproved names, underscored

PLATE 14

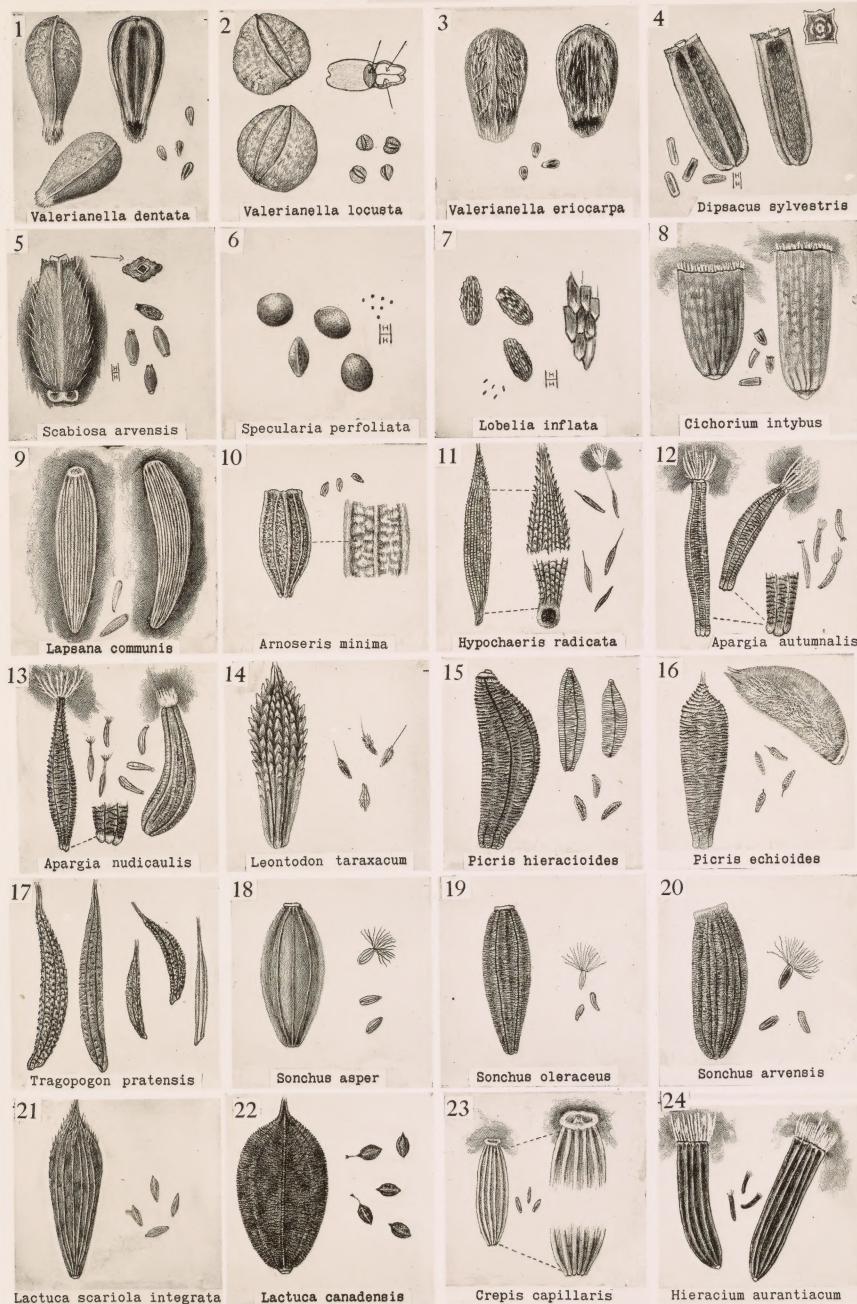


PLATE 15\*

1. *Iva axillaris* Pursh Summoweed
2. *Iva ciliata* Willd. Rough sumpweed
3. *Iva xanthifolia* Nutt. Bigleaf sumpweed
4. *Ambrosia elatior* L. Common ragweed  
*Ambrosia artemisiaefolia* L.
5. *Grindelia squarrosa* (Pursh) Dunal Curlycup gumweed
6. *Erigeron canadensis* L. Horseweed
7. *Rudbeckia hirta* L. Black-eyed-susan
8. *Helianthus annuus* L. Common sunflower
9. *Achillea millefolium* L. Common yarrow
10. *Anthemis cotula* L. Mayweed
11. *Anthemis arvensis* L. Field camomile
12. *Chrysanthemum leucanthemum* L. Oxeye daisy
13. *Matricaria inodora* L. False-camomile
14. *Erechtites hieracifolia* (L.) Raf. Burnweed
15. *Cirsium lanceolatum* (L.) Hill Bull thistle  
*Carduus lanceolatus* L.
16. *Cirsium arvense* (L.) Scop. Canada thistle  
*Carduus arvensis* (L.) Robs.
17. *Carduus crispus* L. Curly thistle
18. *Centaurea cyanus* L. Cornflower
19. *Centaurea jacea* L. Brownscale knapweed
20. *Centaurea calcitrapa* L. Star-thistle
21. *Centaurea melitensis* L. Malta star-thistle
22. *Centaurea solstitialis* L. Yellow star-thistle
23. *Centaurea picris* Pall. Russian knapweed
24. *Madia sativa* Mol. Chilean tarweed

\*Synonyms, or unapproved names, underscored

PLATE 15

